

FIGURE 1

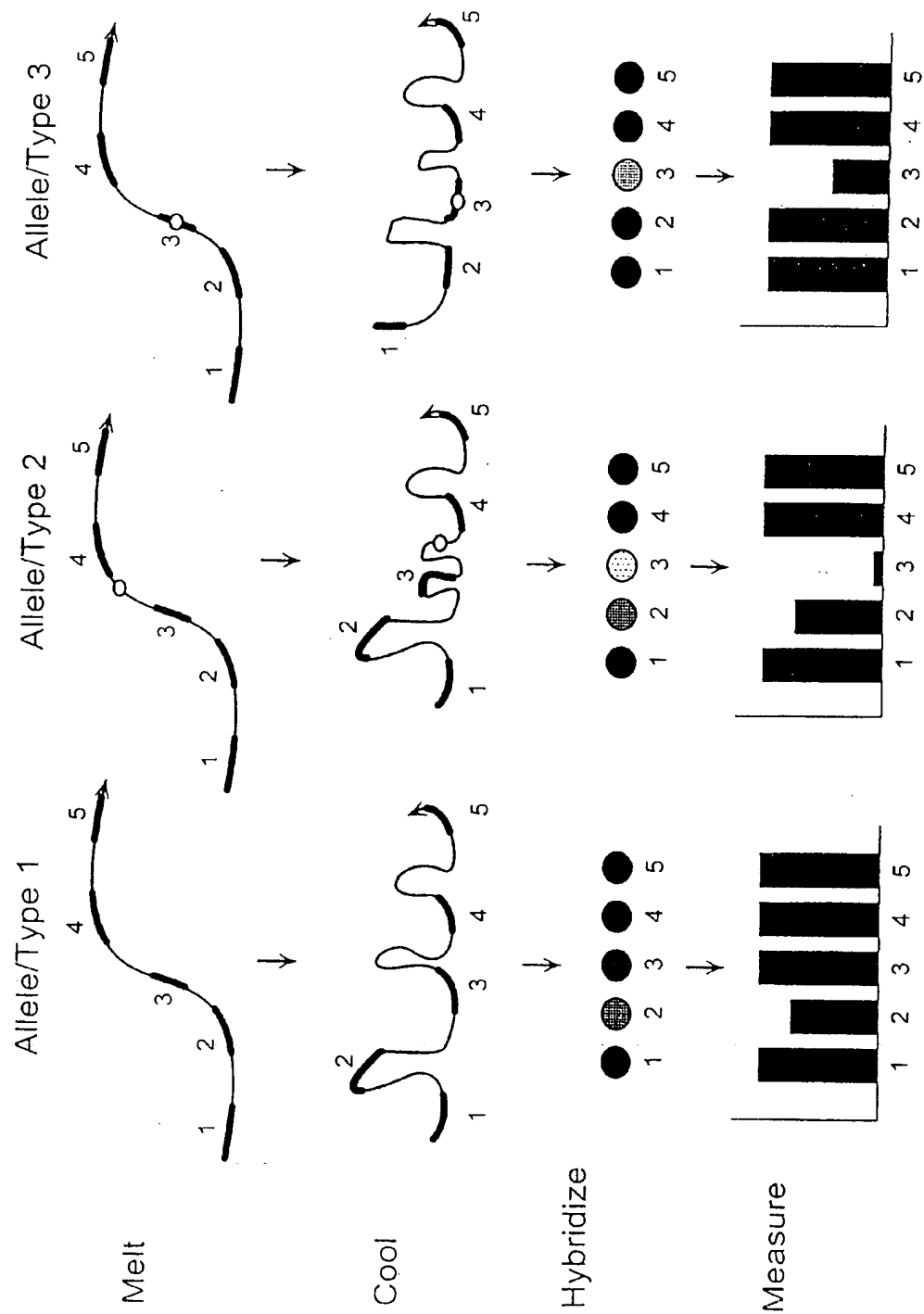


FIGURE 2

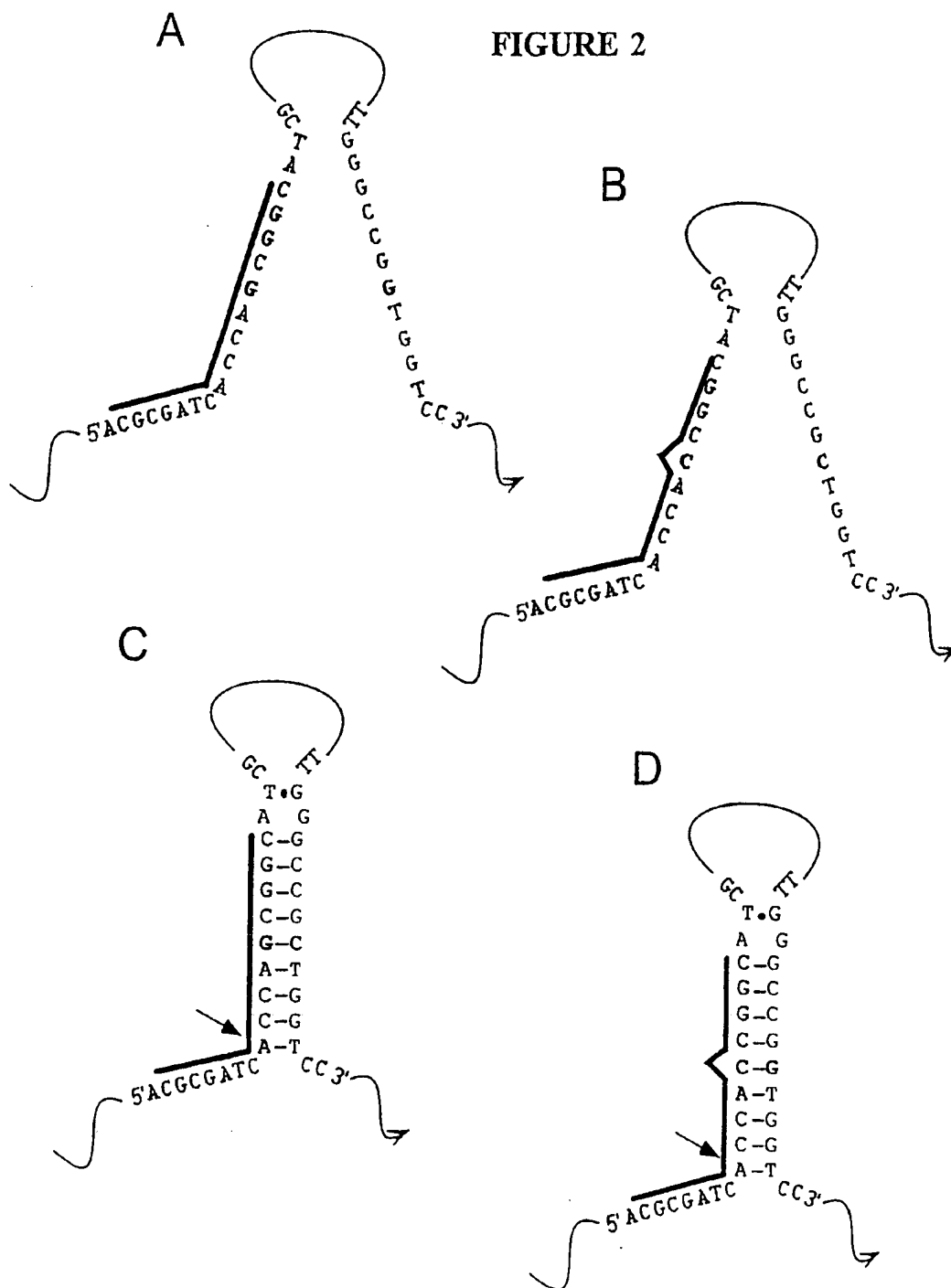
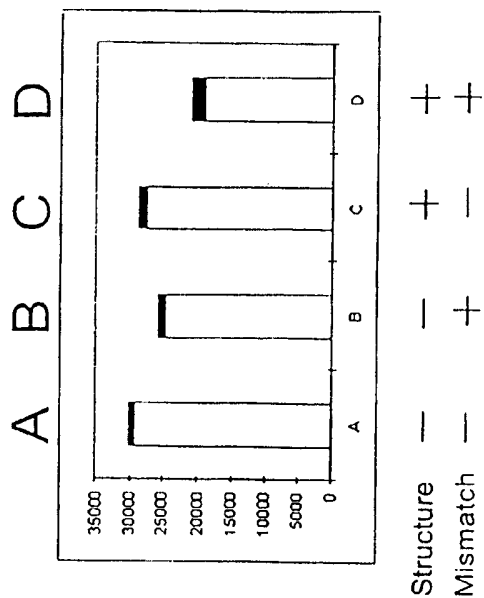
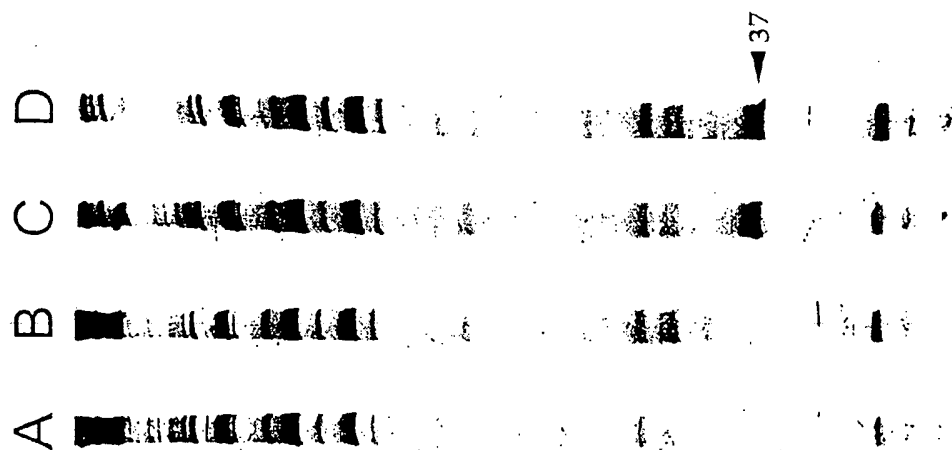




FIGURE 3





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FIGURE 4

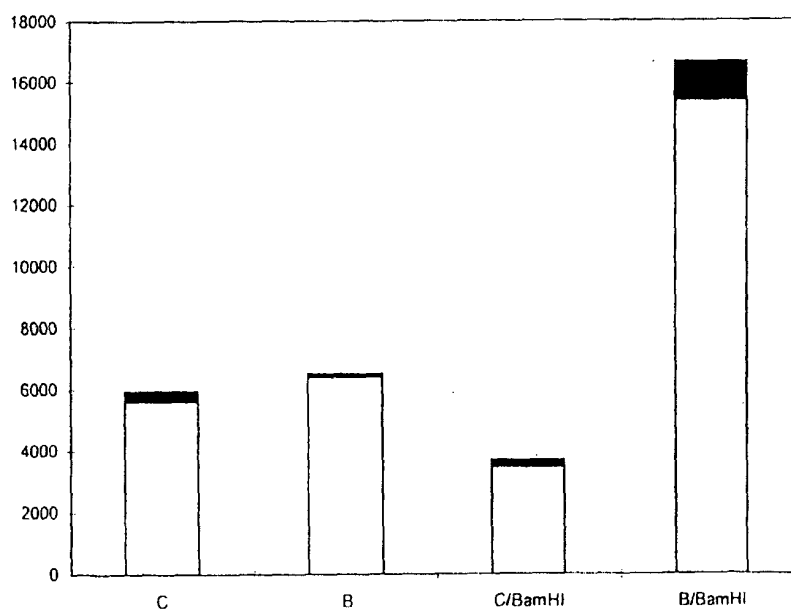


FIGURE 5

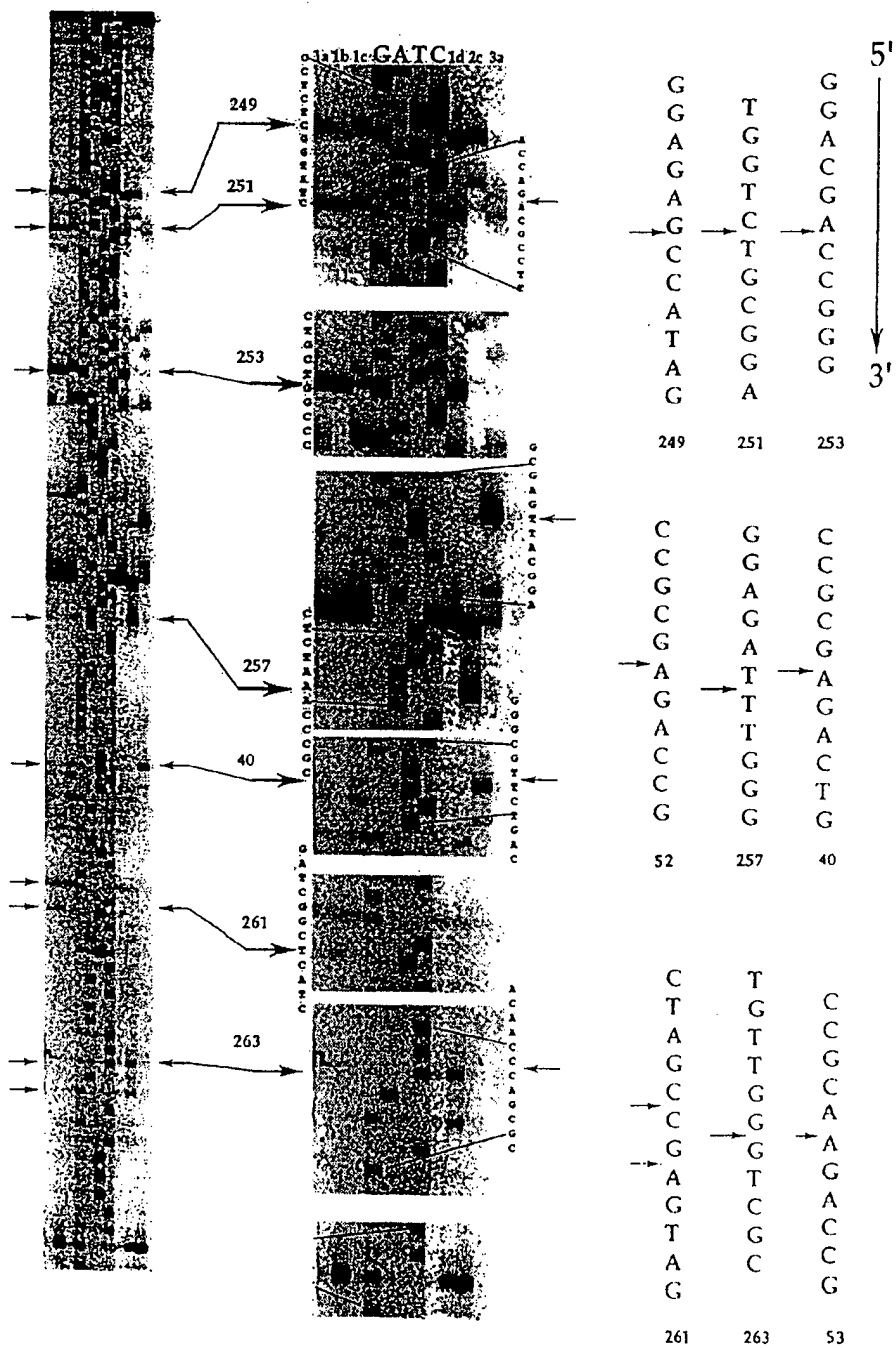




FIGURE 6

Consensus:	GATTCTGTCT	TCACGCAGAA	AGCGTCTAGC	CATGGCGTTA	GTATGAGTGT	CGTGCAGCCT
HCV 1a	-----	-----	-----	-----	-----	-----
HCV 1b	-----	-----	-----	-----	-----	-----
HCV 2c	-----	-----	-----	-----	-----	-A-----
HCV 3a	-----	-----	-C-----	-----	-C-----	-----
		#249		#251		
	CCAGGACCCC	CCCTCCCGGG	<u>AGAGCCATAG</u>	<u>TGGTCTGCGG</u>	AACCGGTGAG	TACACCGGAA
	-----	-----	-----	-----	-----	-----
	-T-----	-----	-----	-----	-----	-----
	-C-----	-----	-----	-----	-----	-----
	-----	-A-----	-----	-----	-----	-----
	#253				#257	
	TTGCCAGGAC	<u>GACCGGGTCC</u>	TTTCTTGAT	CAACCCGCTC	AATGCCTGGA	<u>GATTGGGCG</u>
	-----	-----	-----	-----	-----	-----
	-----	-----	-----	-----	-----	-----
	-G--A	-T-----	-A-----	-A-----	-C--C	-----
	-C--TG--GT	-----	-G-----	-----	-A--CA--	A-----
	#40	#261		#263		
	TGCCCCCGCA	<u>AGACTGCTAG</u>	<u>CCGAGTAGTG</u>	<u>TTGGGTCGCG</u>	AAAGGCCTTG	TGGTACTGCC
	-----	-----	-----	-----	-----	-----
	-----	-G-----	-----	-----	-----	-----
	-----	-----	-C-----	-T-----	-----	-----
	-----	-G-----	-TCA-----	-----	-----	-----
	TGATAGGGTG	CTTGGGAGTG	CCCCGGGAGG	TCTCGTAGAC	CGTGCAATC	-----
	-----	-----	-----	-----	-----	-----
	-----	-----	-----	-----	-----	-----
	-----	-----	-A-----	-----	-----	-----
	-----	-----	-----	-----	-----	-----



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FIGURE 7

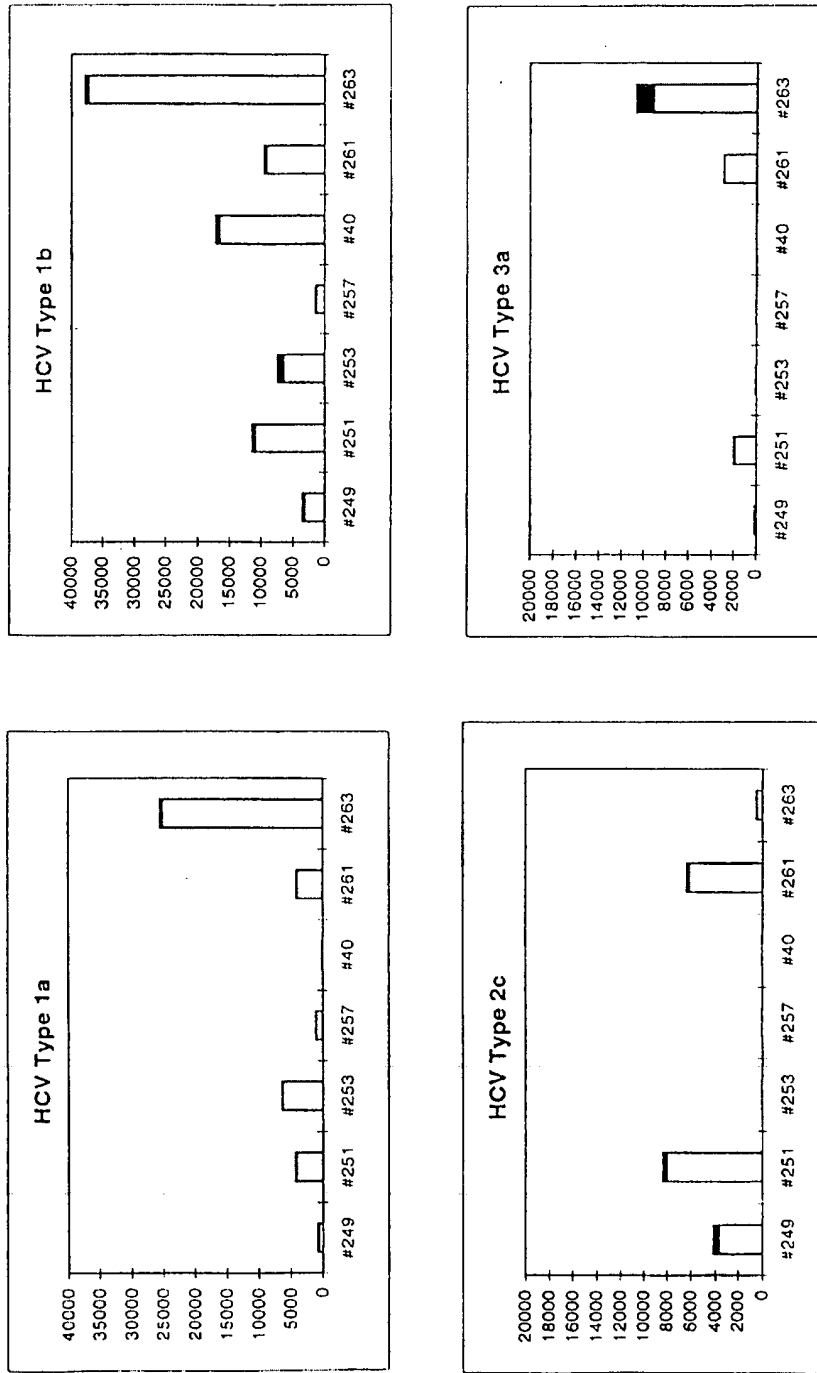
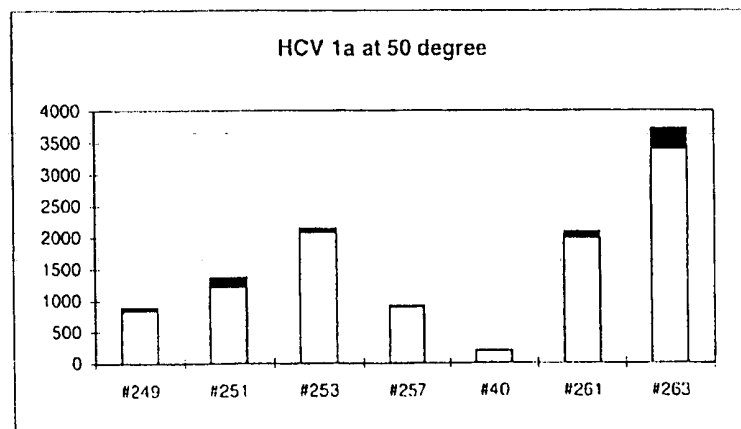
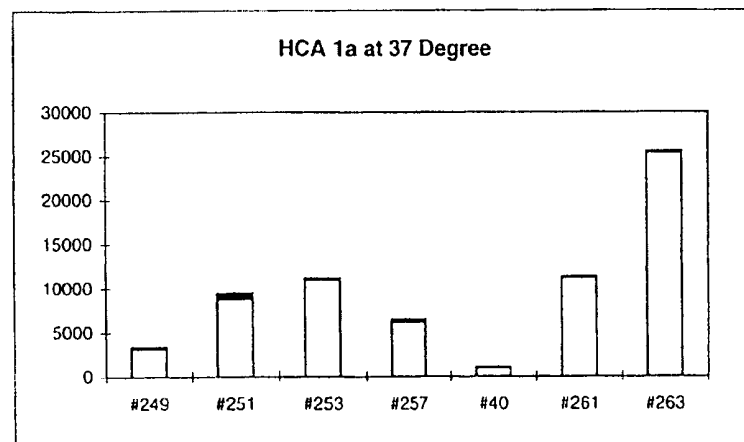
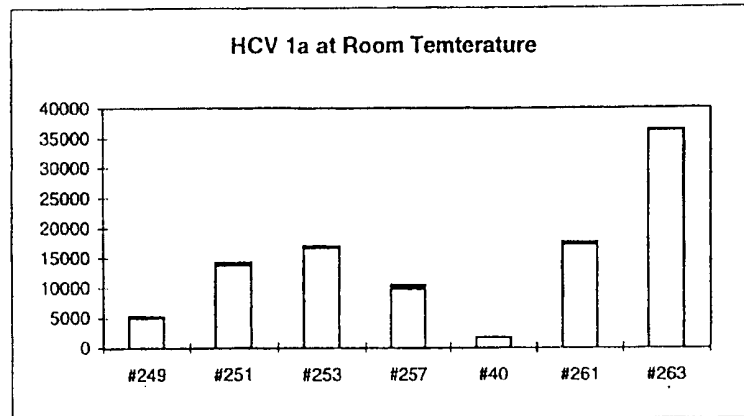




FIGURE 8A

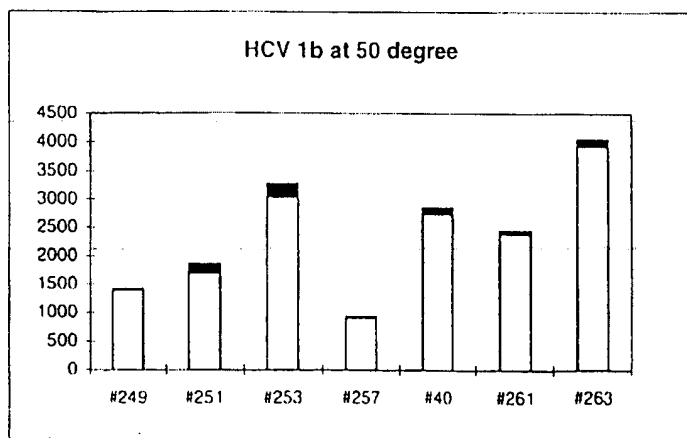
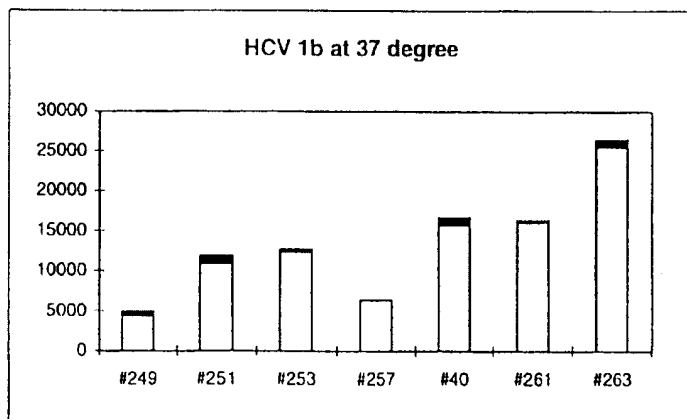
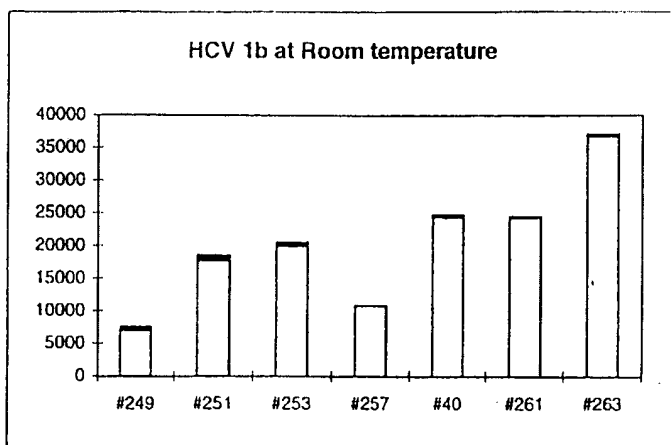






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FIGURE 8B





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FIGURE 8C

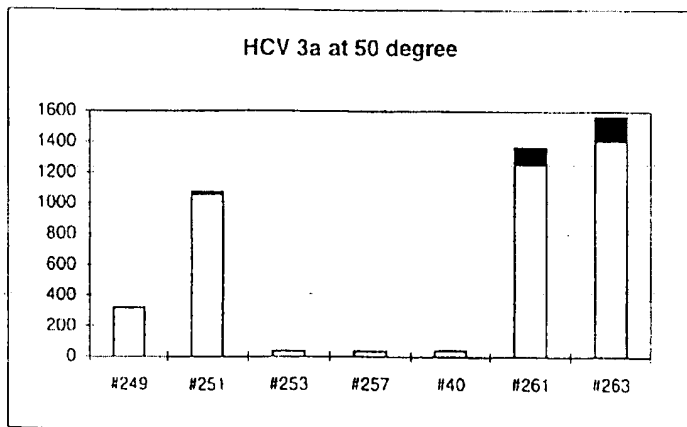
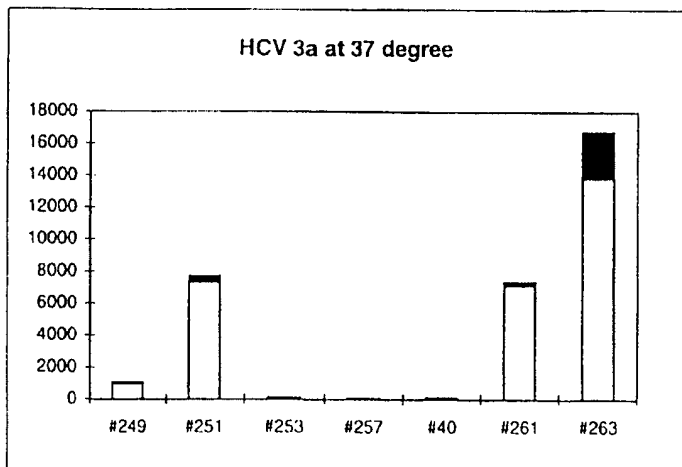
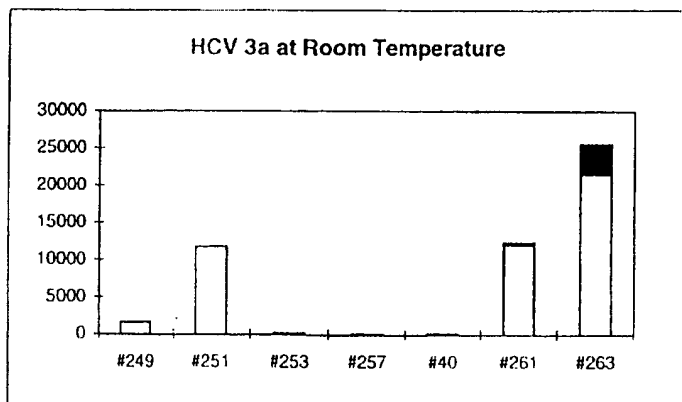




FIGURE 9A

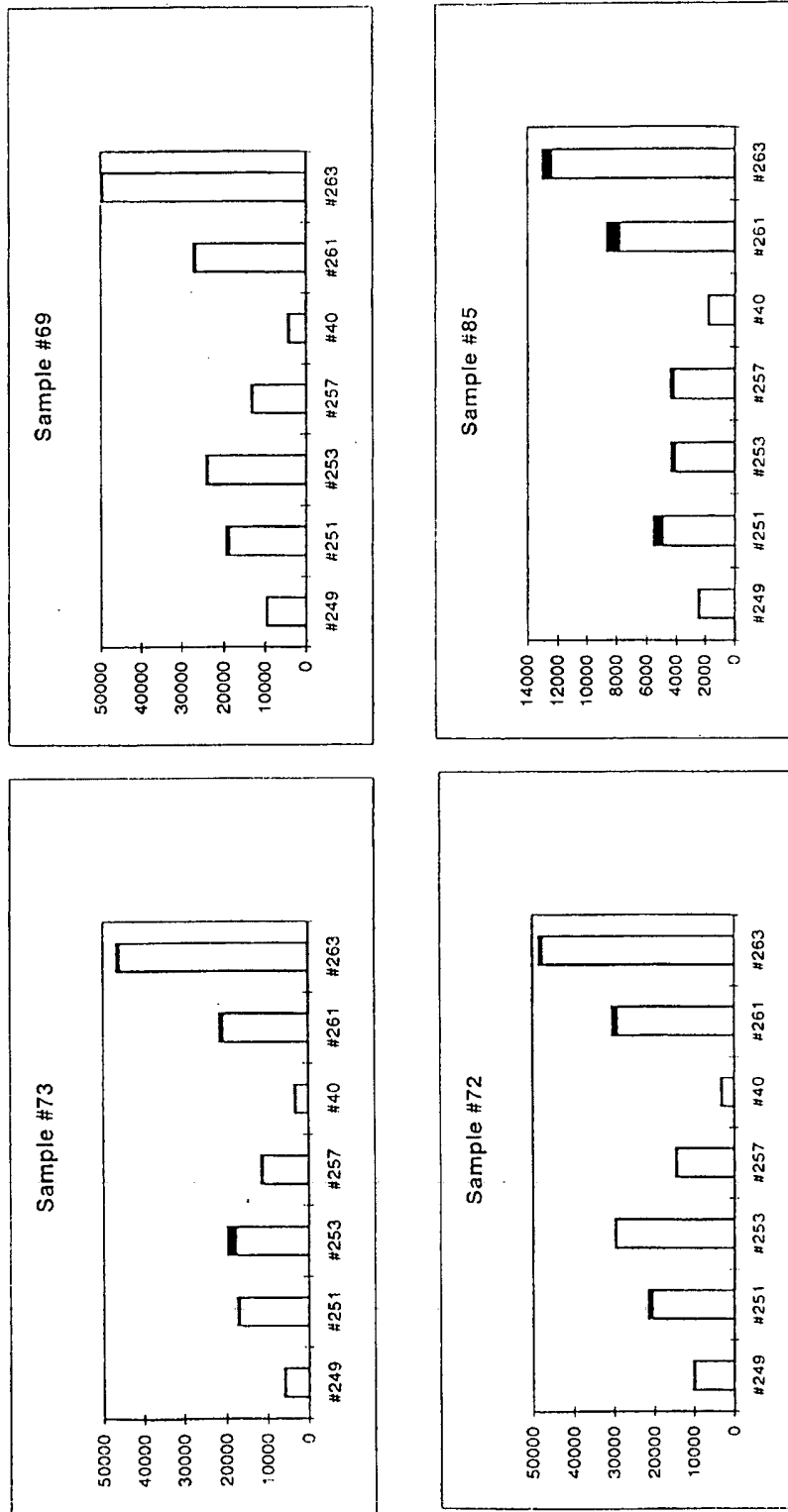




FIGURE 9B

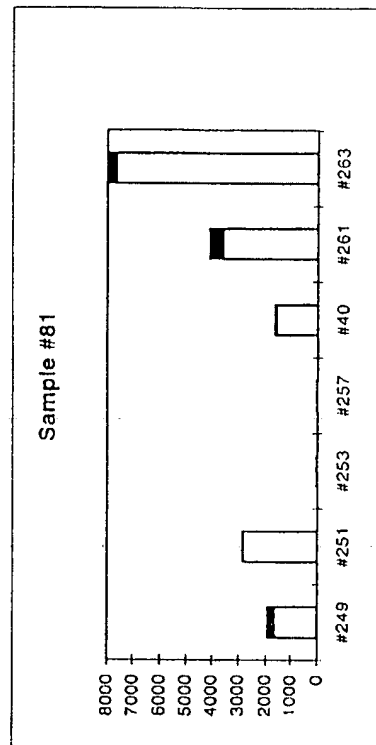
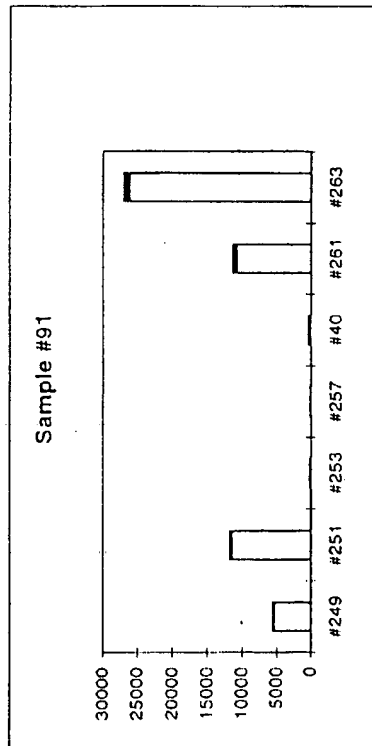
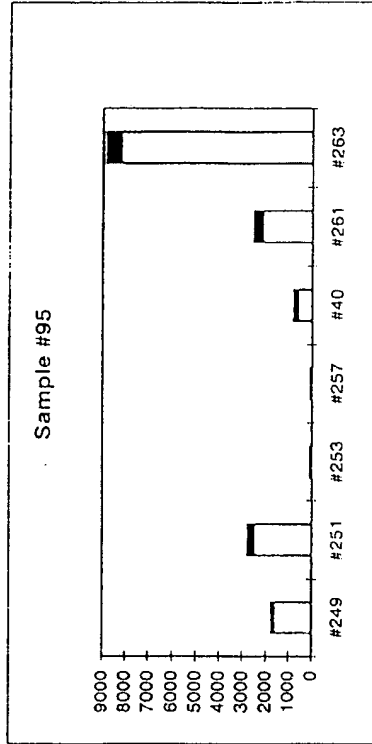
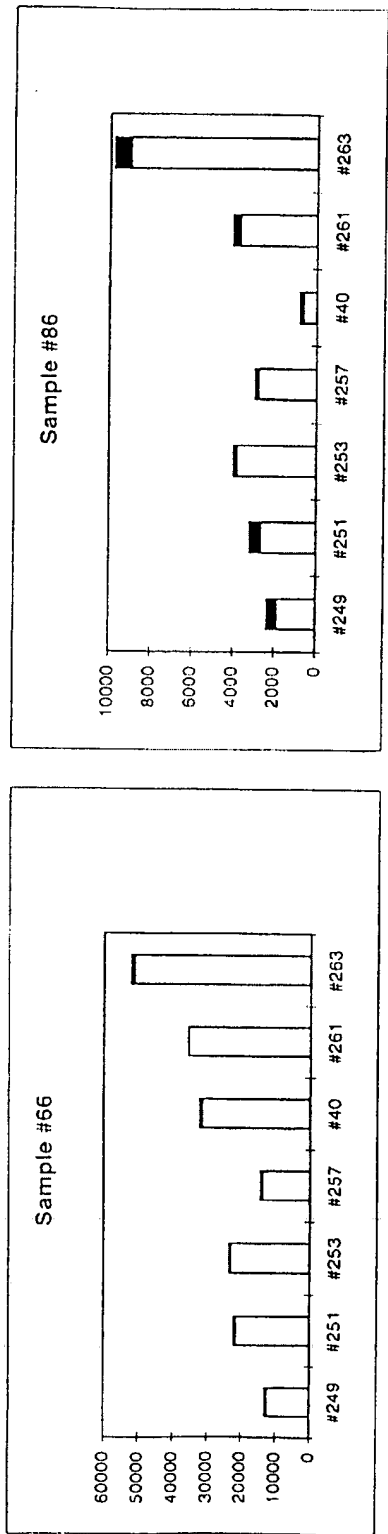




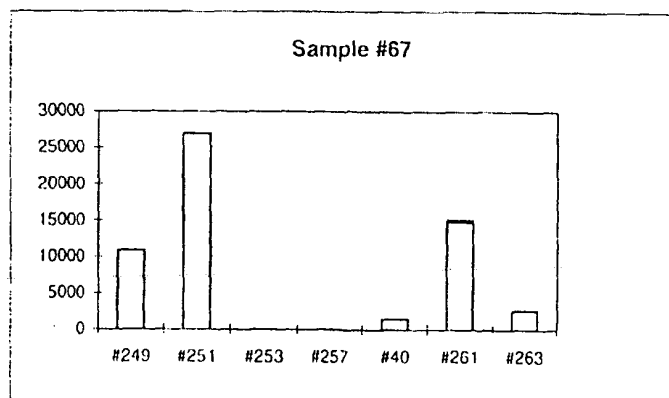
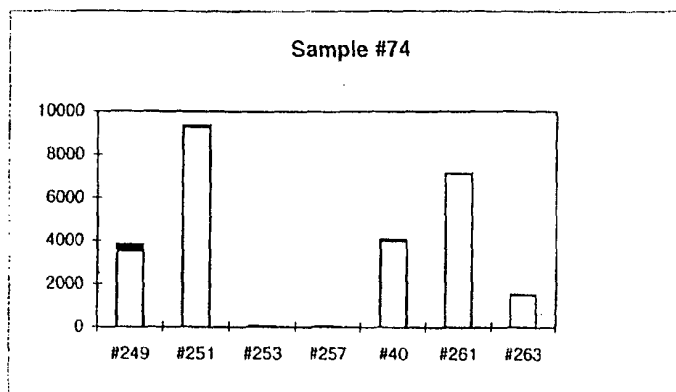
FIGURE 9C





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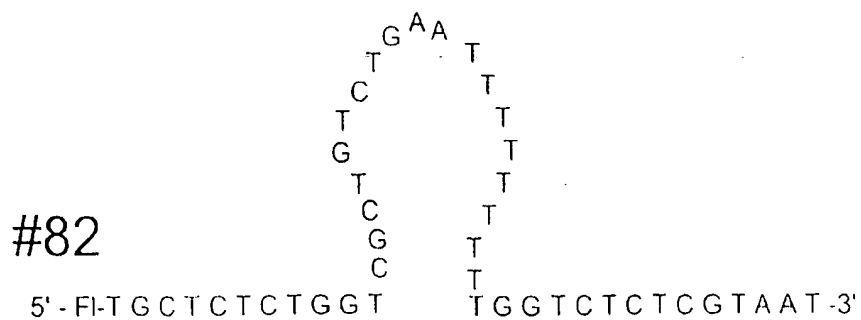
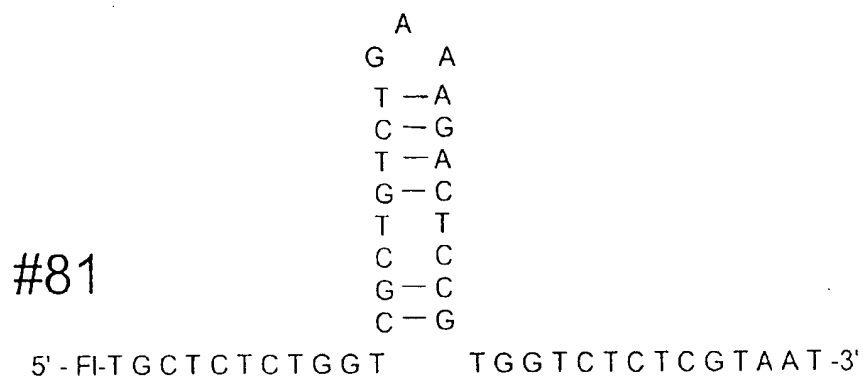
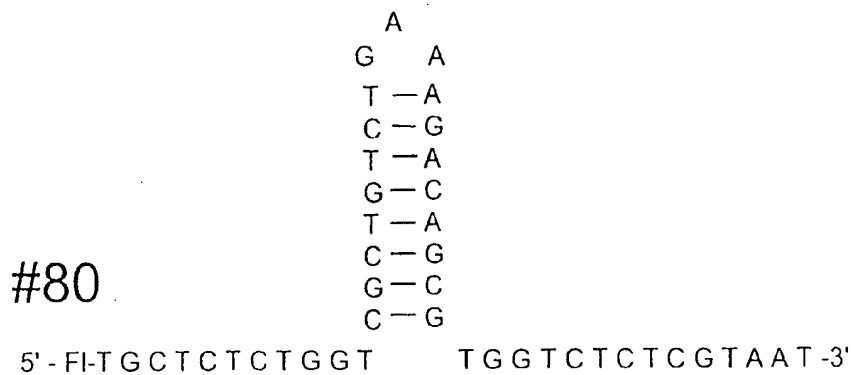
FIGURE 9D





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FIGURE 10





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FIGURE 11A

#2) 5' Biotin

```
      |
      T  A
    C  G  A
    A  T—A
    G  C—G
    A  T—A
    C  G—C
    A  T—A
    G  C—G
    C  G—C
    G  C—G
```

#80) 5' - FI-TGCTCTCTGGT TGGTCTCTCGTAAT -3'

#FD91) 3' Biotin - CGAGAGACCA -5'

```
      A
    G  A
    T—A
    C—G
    T—A
    G—C
    T—A
    C—G
    G—C
    C—G
```

#80) 5' - FI-TGCTCTCTGGT TGGTCTCTCGTAAT -3'

#78) 3' - AGACCATTACCAGA -Biotin 5'

#4) 3' - GAGACCATTACCAGAG -Biotin 5'

#79) 3' - AGAGACCATTACCAGAGA -Biotin 5'



#116) 3' - AGAGACCAACCAGAGA -Biotin 5'

#117) 3' - TACCAGAGA -Biotin 5'

#118) 3' - AGAGACCAT -5'





FIGURE 11B

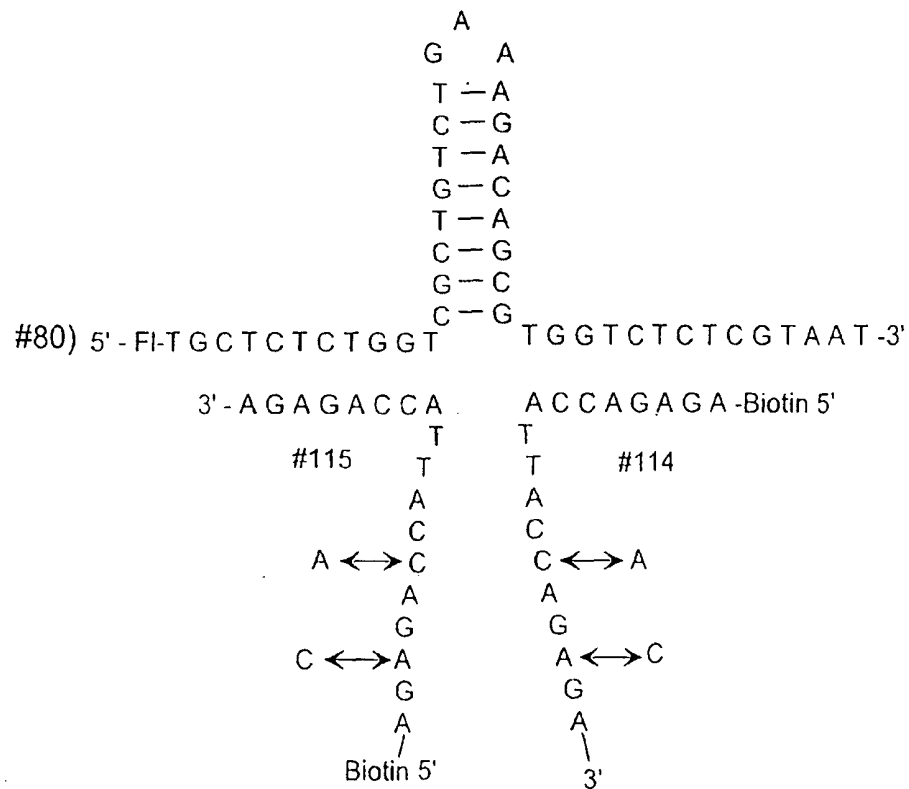
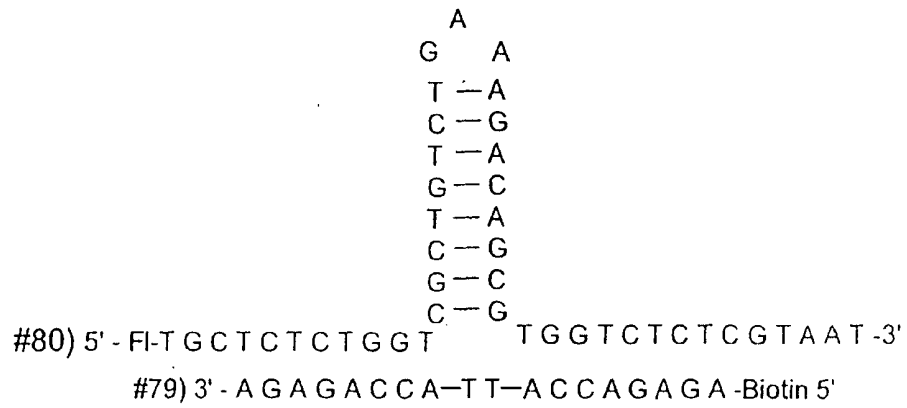
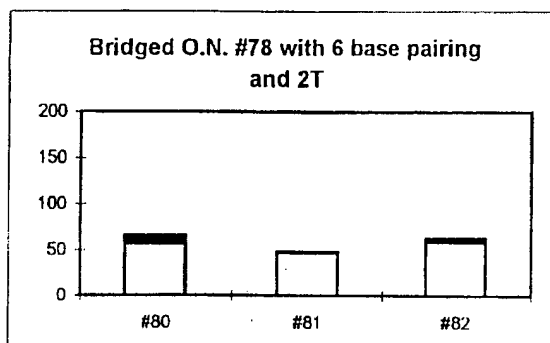


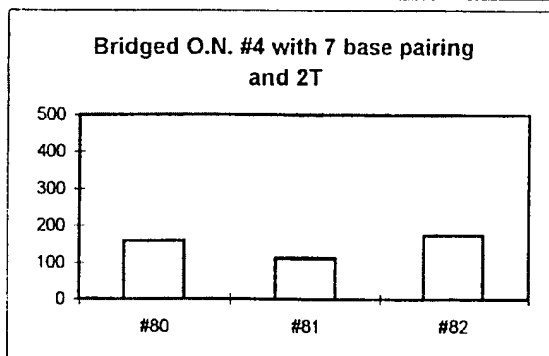


FIGURE 12

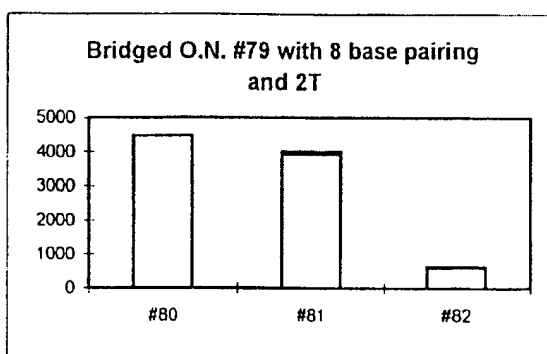
A.



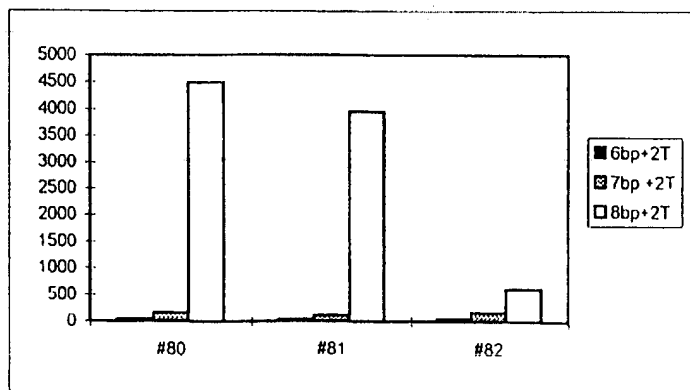
B.



C.



D.





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FIGURE 13A

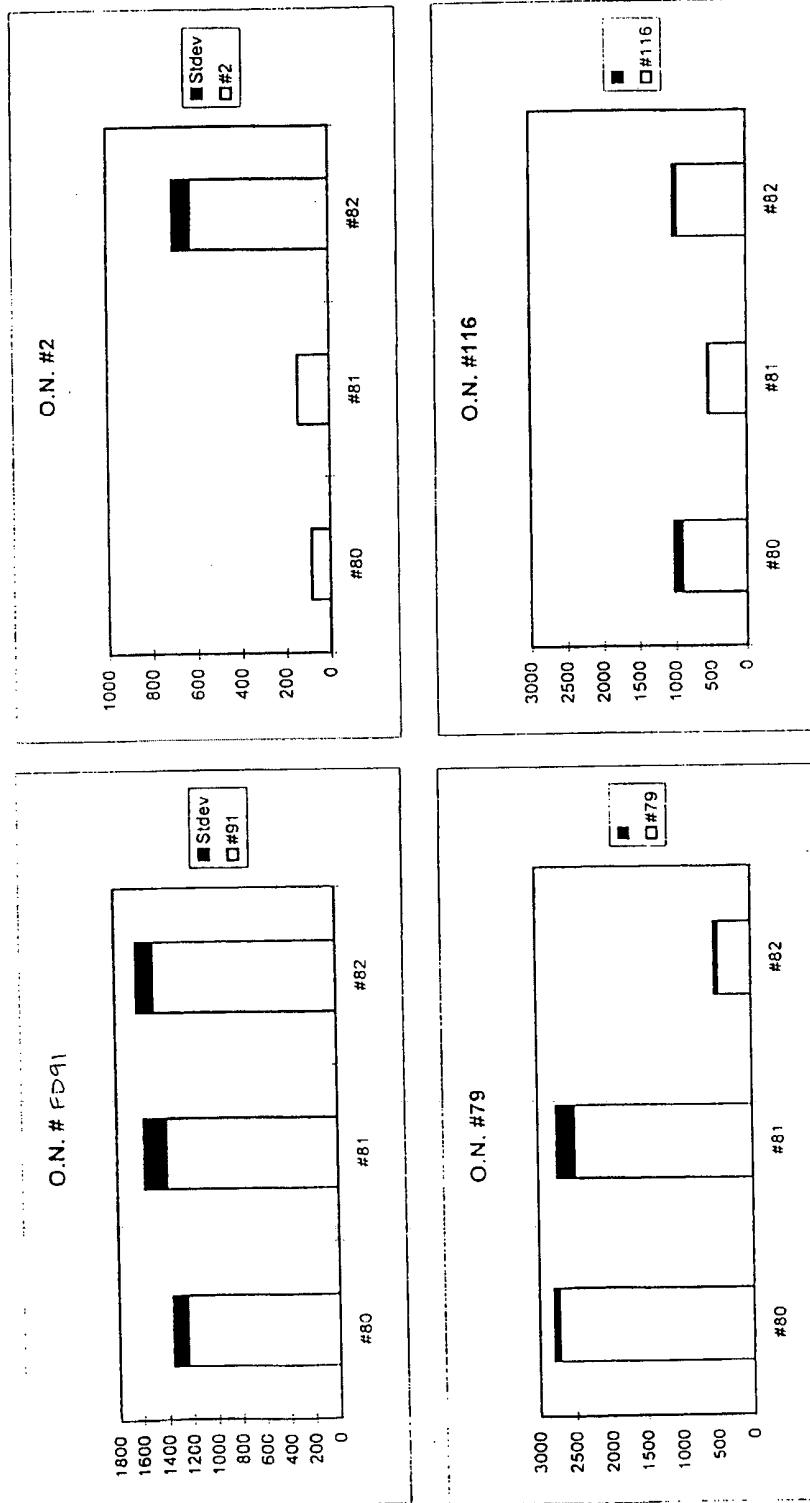
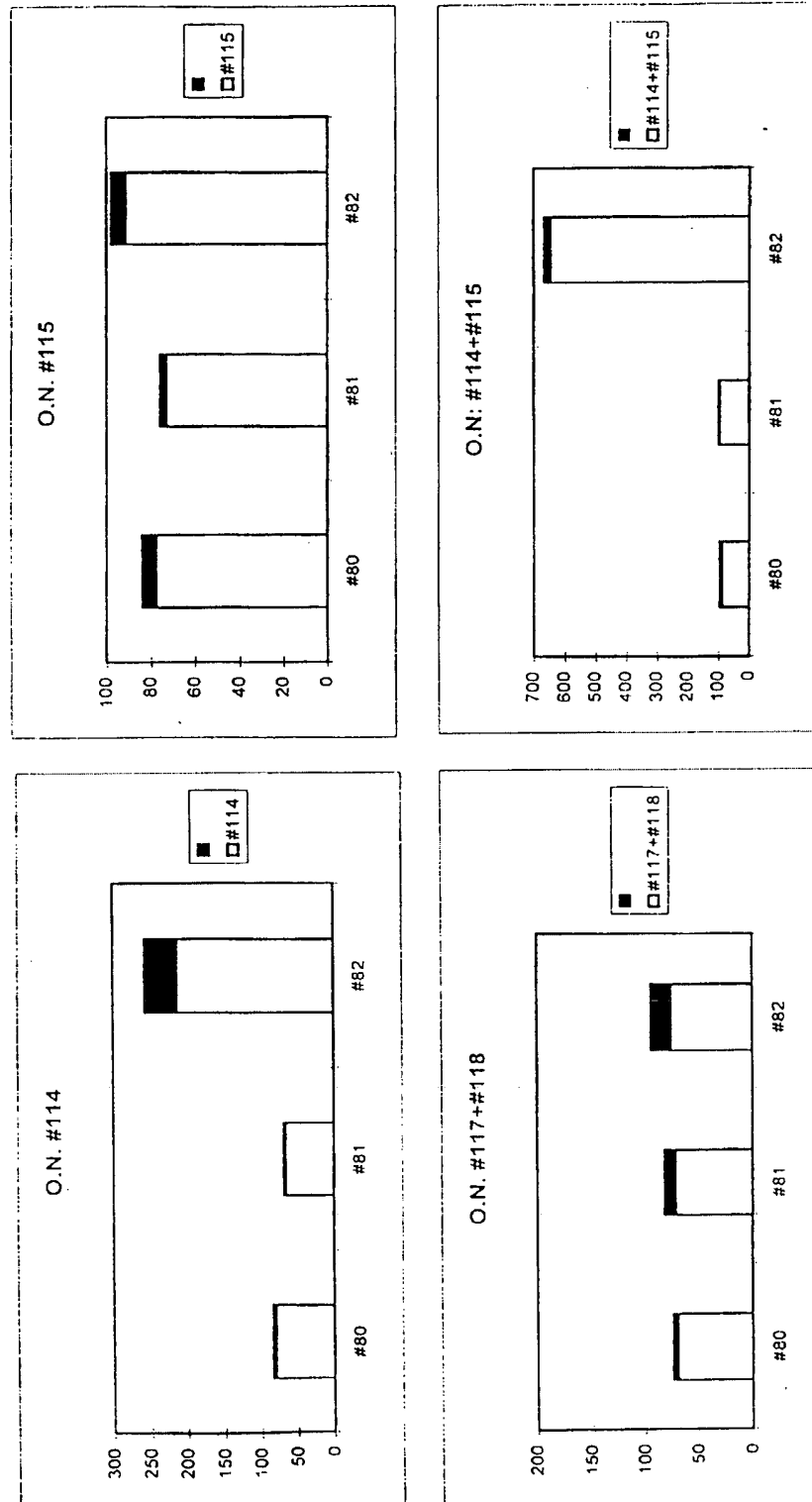




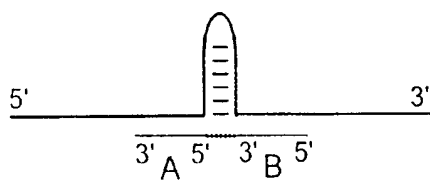
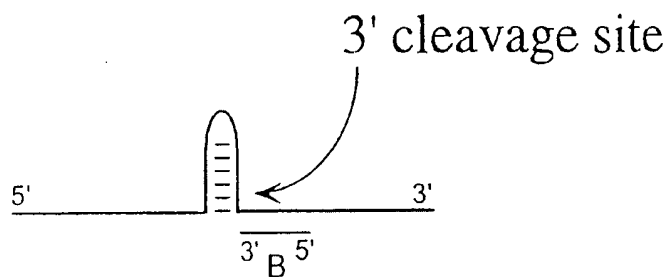
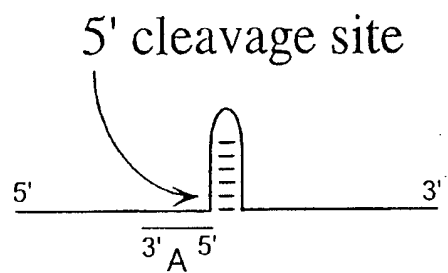
FIGURE 13B





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FIGURE 14





**FIGURE 15**

```

1-----10-----20-----30-----40-----50-----60-----70-----80
CTCGCAAGCACCCCTATCAGGCAGTACCACAAGCCCTTTCGGGACCCCAACACTACTCGGCTAGCAGTCTTGC GGGGGCAGG

1a
1b
2a/c
3a

1-----90-----100-----110-----120-----130-----140-----150-----160
CCCAAATCTCCAGGCATTGAGCGGGTTTATCCAAGAAAGGACCCGGTCTGCTGGCAATTCCGGGTGTACTCACCGGTTCC

1a
1b
2a/c
3a

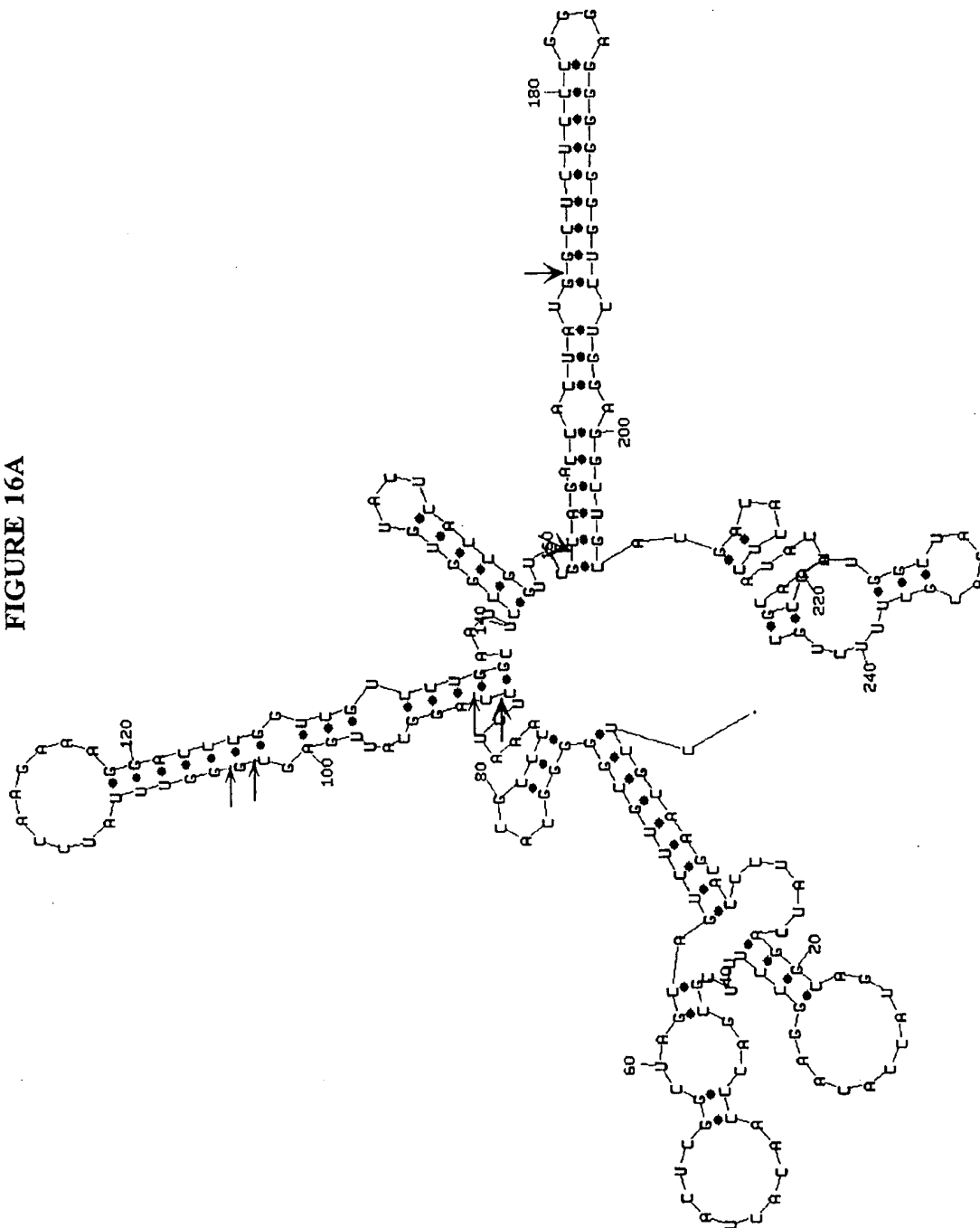
1-----170-----180-----190-----200-----210-----220-----230-----240-----
GCAGACCACCTATGGCTCTCCGGGAGGGGGGTCTCTGGAGGCTGCACGACACTCATACTAAGCCCATGGCTAGACGCTTCTTCTGC

1a
1b
2a/c
3a

```



FIGURE 16A



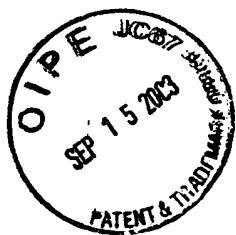
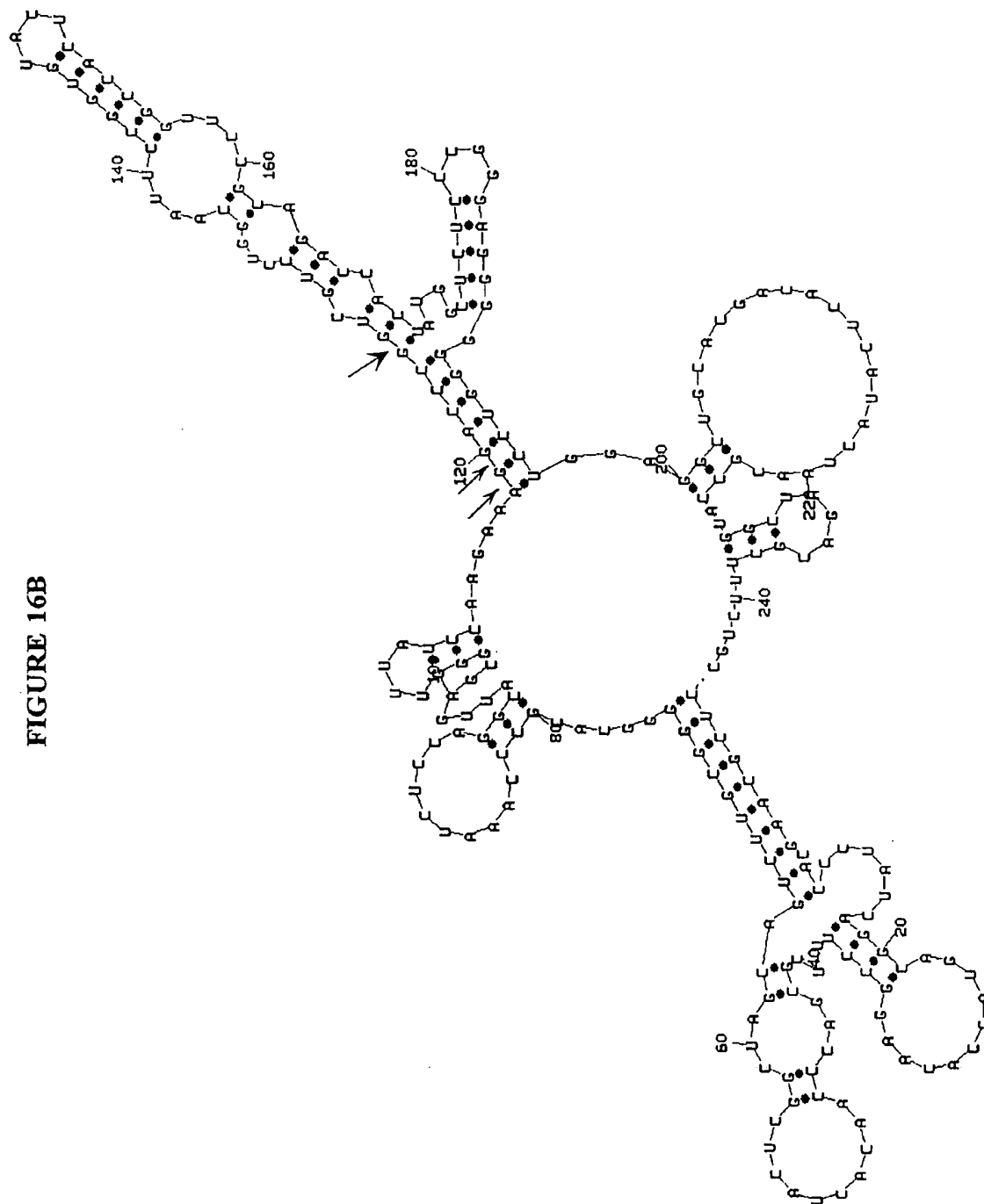
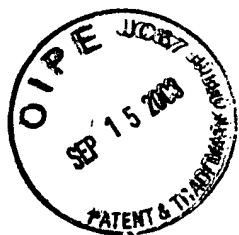


FIGURE 16B

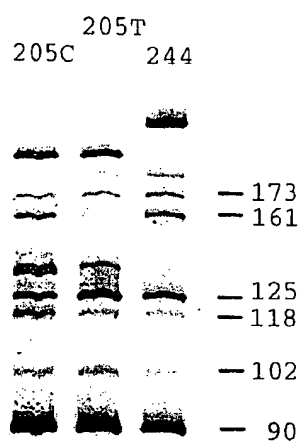






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FIGURE 17A





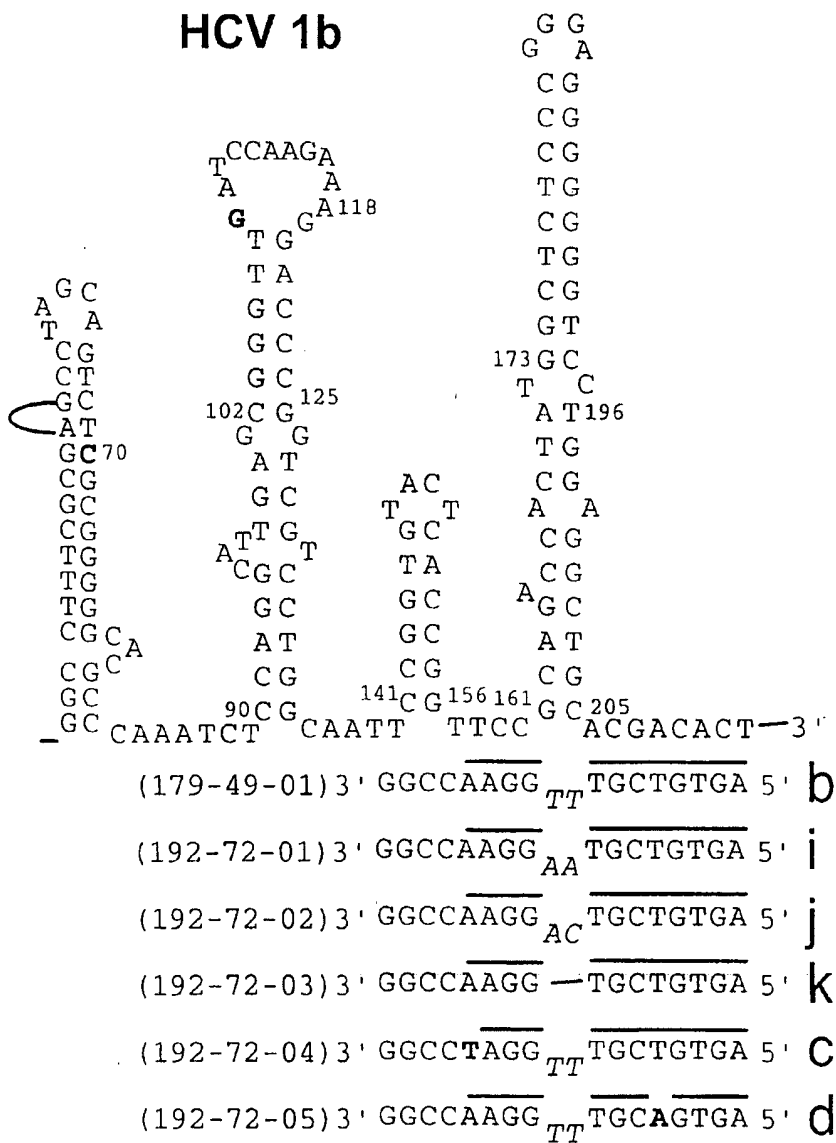






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FIGURE 18B





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FIGURE 18C

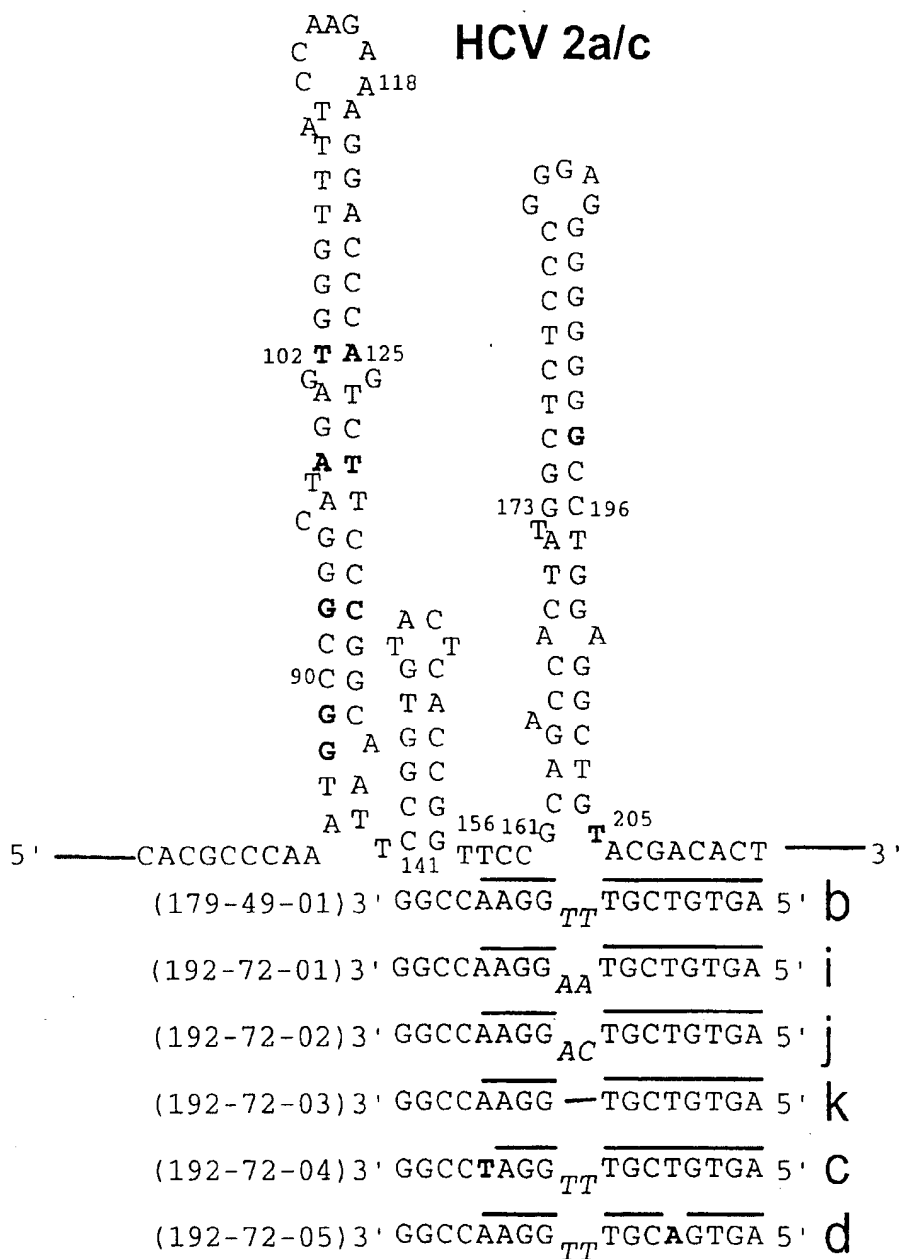




FIGURE 18D

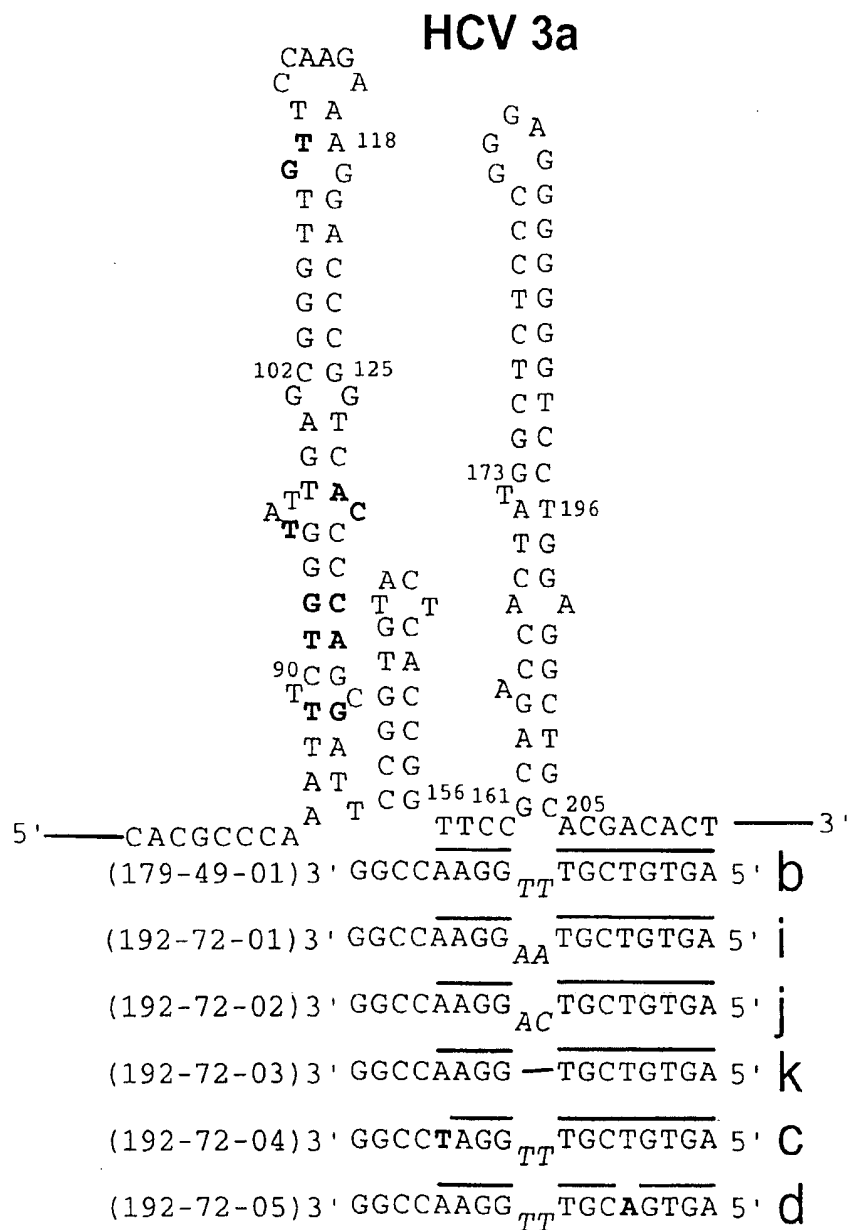
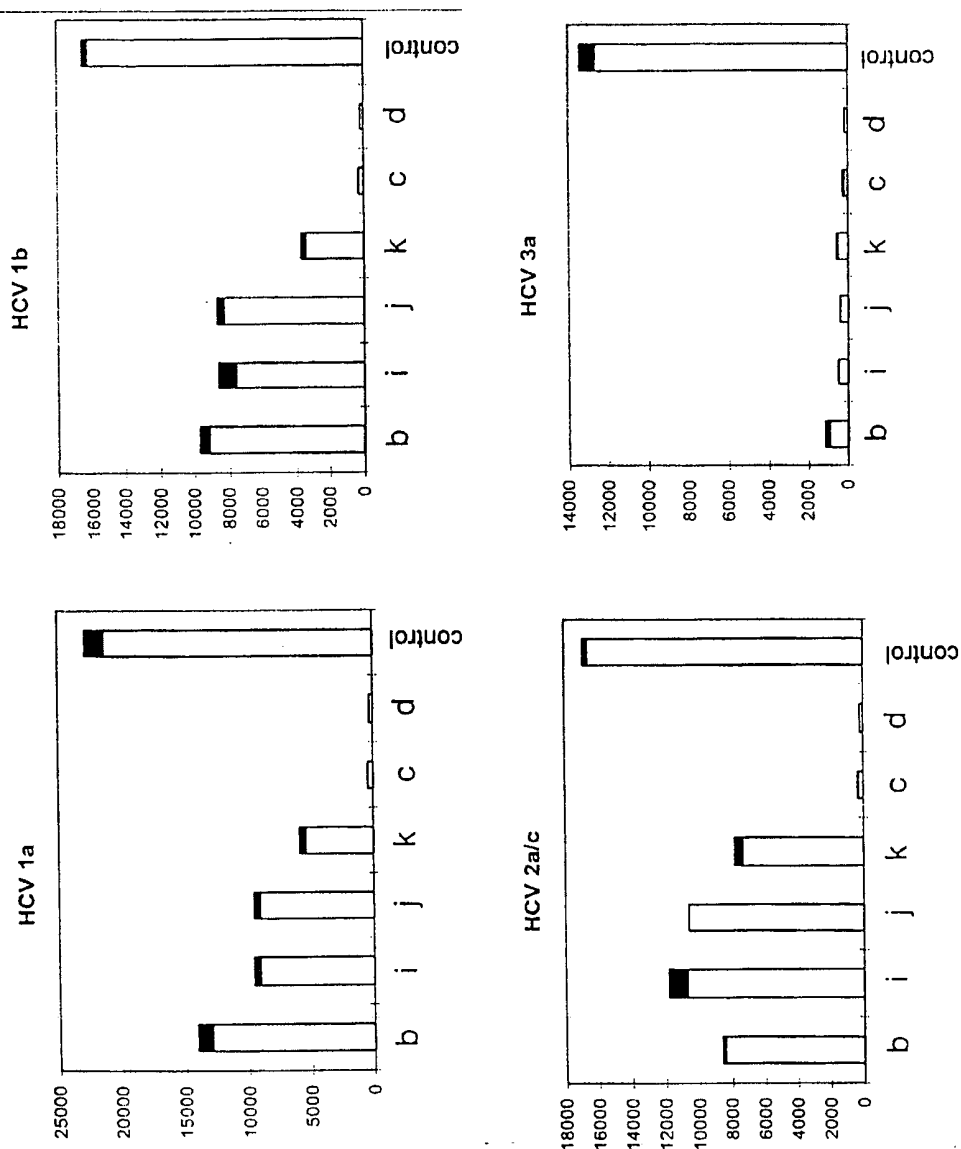




FIGURE 19





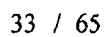


FIGURE 20A

GA  
GG

U  
U

U  
U

U  
U

U  
E

⌈  
⌋

GF

U  
U

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U  
G  
M

U  
A  
T

H U  
 E F

U C  
H C

AA

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U  
U

U  
G  
r

AT

U  
U

GC 2A

44

1

CCGFC

18

II

18

II

18

IT

1

11  
4  
4  
1  
0

# HCV 1a

5'-CAATTCGGTGTA<sup>GC205</sup>CTACCGGTCCACGACACT-3'

3' - GGCCAAGCGTCTGGTGA - F1' 5' (205-13-02) a

3' - GGCCAAGG TGCTGTGA ..... F1.5' (179-49-01) **b**

3' - GGCCTAGG<sub>TT</sub> TGCTGTGA ...Fl. 5' (192-72-04) C

3' - GGCCAAGG TTCAGTGA Fl. 5' (192-72-05) d

3'-GGCCAAGG-F15' (205-27-01)

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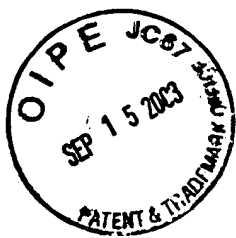
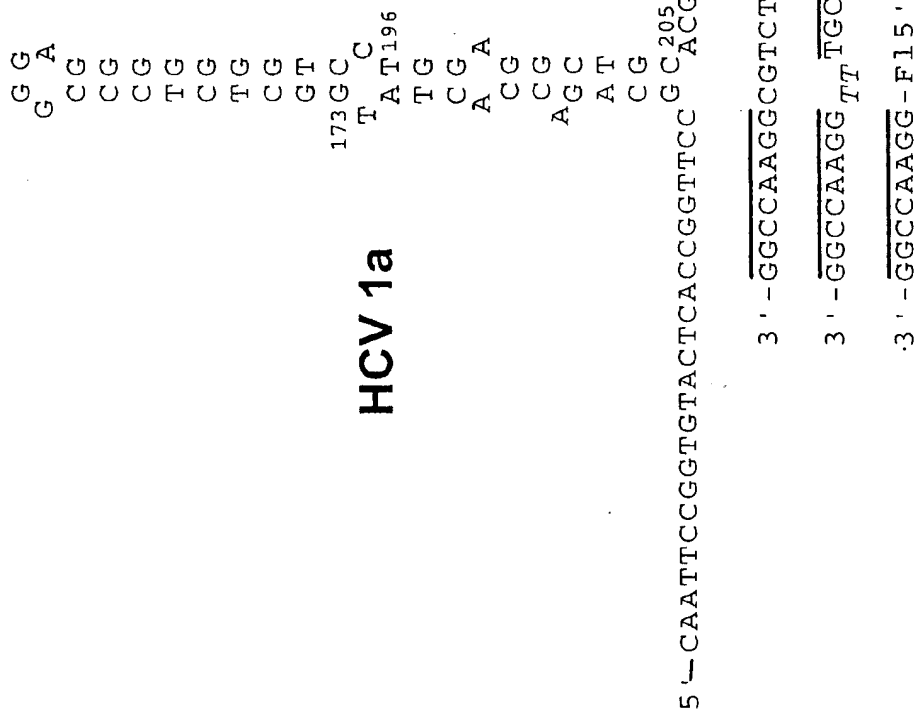


FIGURE 22



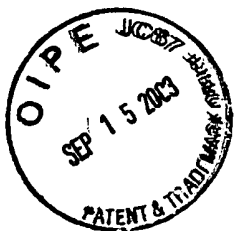
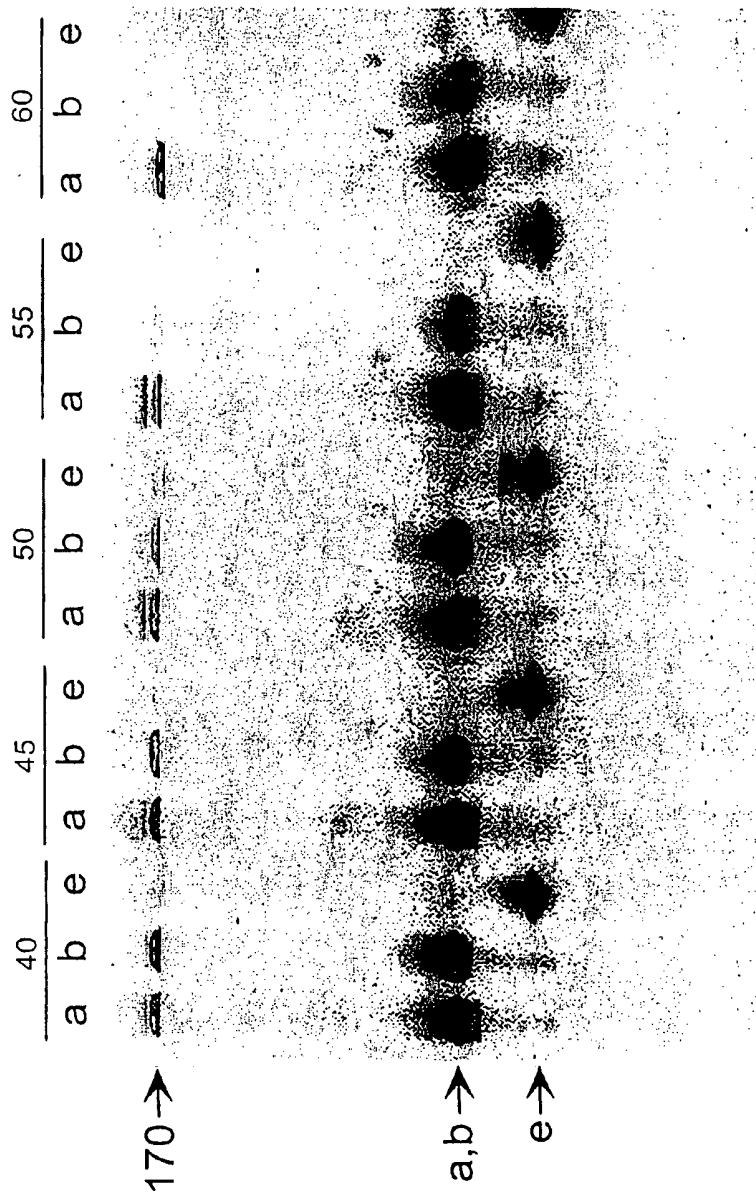


FIGURE 23



**FIGURE 24**

## HCV 1a

**HCV 1a**

G G  
G A  
CG  
CG  
CG  
TG  
CG  
TG  
CG  
GT  
173GC  
T C  
A T<sup>196</sup>  
TG  
CG  
A A  
CG  
CG  
AGC  
AT  
CG  
5' - CAATTCCGGTGTA CTCA CCG GTTC GC<sup>205</sup> ACC  
f (192-96-01) 3' - TAAGGCCACATGAGT - 5'  
3' - GGCCAAGCGCTCT  
3' - GGCCAAGG TT TGCC  
3' - GGCCTAGG TT TGCC  
3' - GGCCAAGG TT TGCC  
3' - GGCCAAGG - F15 '

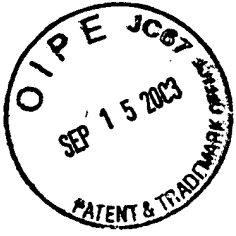


FIGURE 25

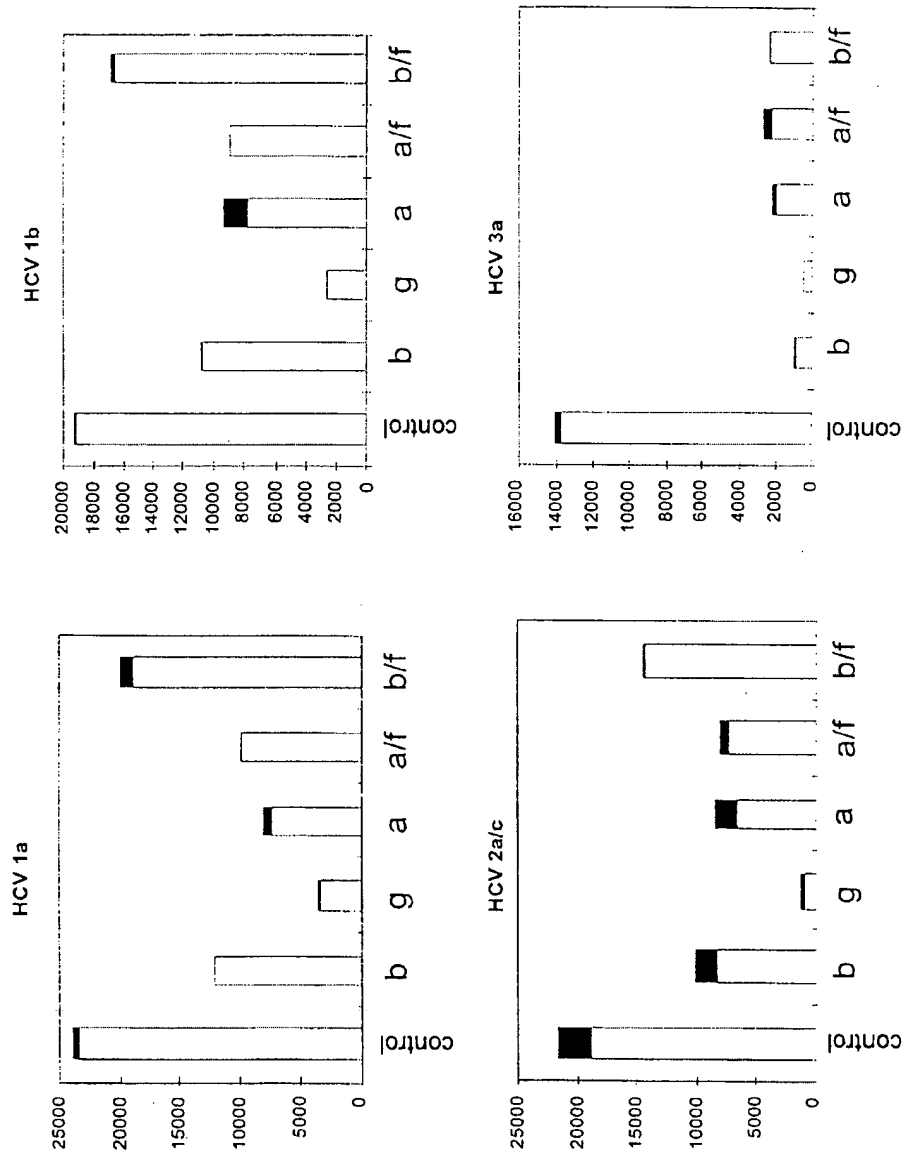




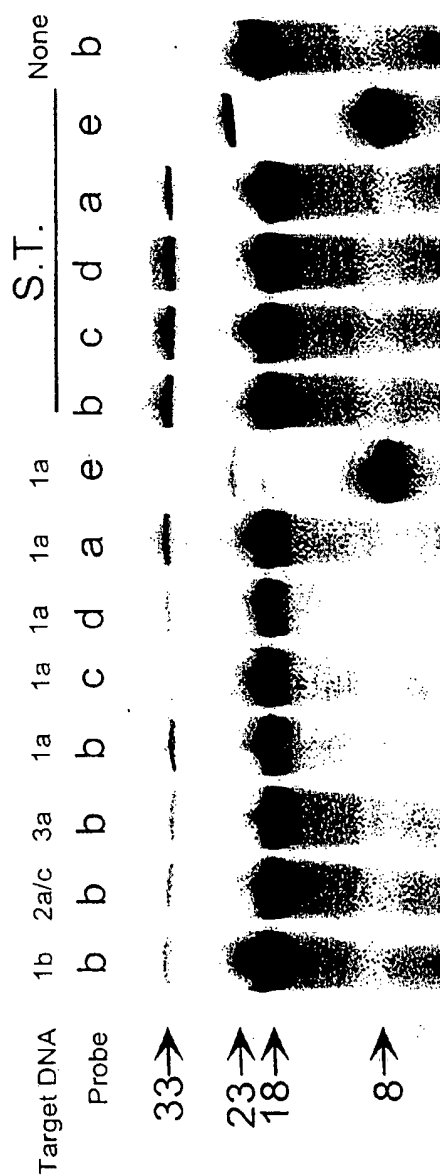
FIGURE 26

5' -ATTCCGGTGTACTCACC GGTTCCAAACGACACT-3' (205-13-01) **S.T.**  
f (192-96-01) 3' -TAAGGCCACATGAGT-5'  
3' -GGCCAAAGCGCTCTGGTGA-F1'5' (205-13-02) **a**  
3' -GGCCAAAGG<sub>TT</sub> TGCTGTGA-F1'5' (179-49-01) **b**  
3' -GGCCTAGG<sub>TT</sub> TGCTGTGA-F1'5' (192-72-04) **c**  
3' -GGCCAAAGG<sub>TT</sub> TGCAGTGA-F1'5' (192-72-05) **d**  
3' -GGCCAAAGG-F15' (205-27-01) **e**





FIGURE 27



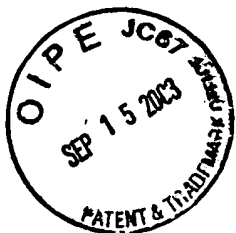


FIGURE 28

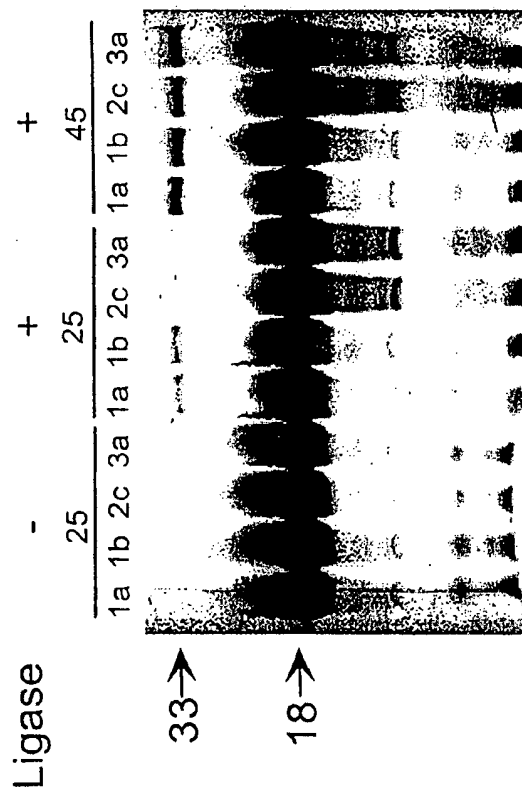




FIGURE 29A

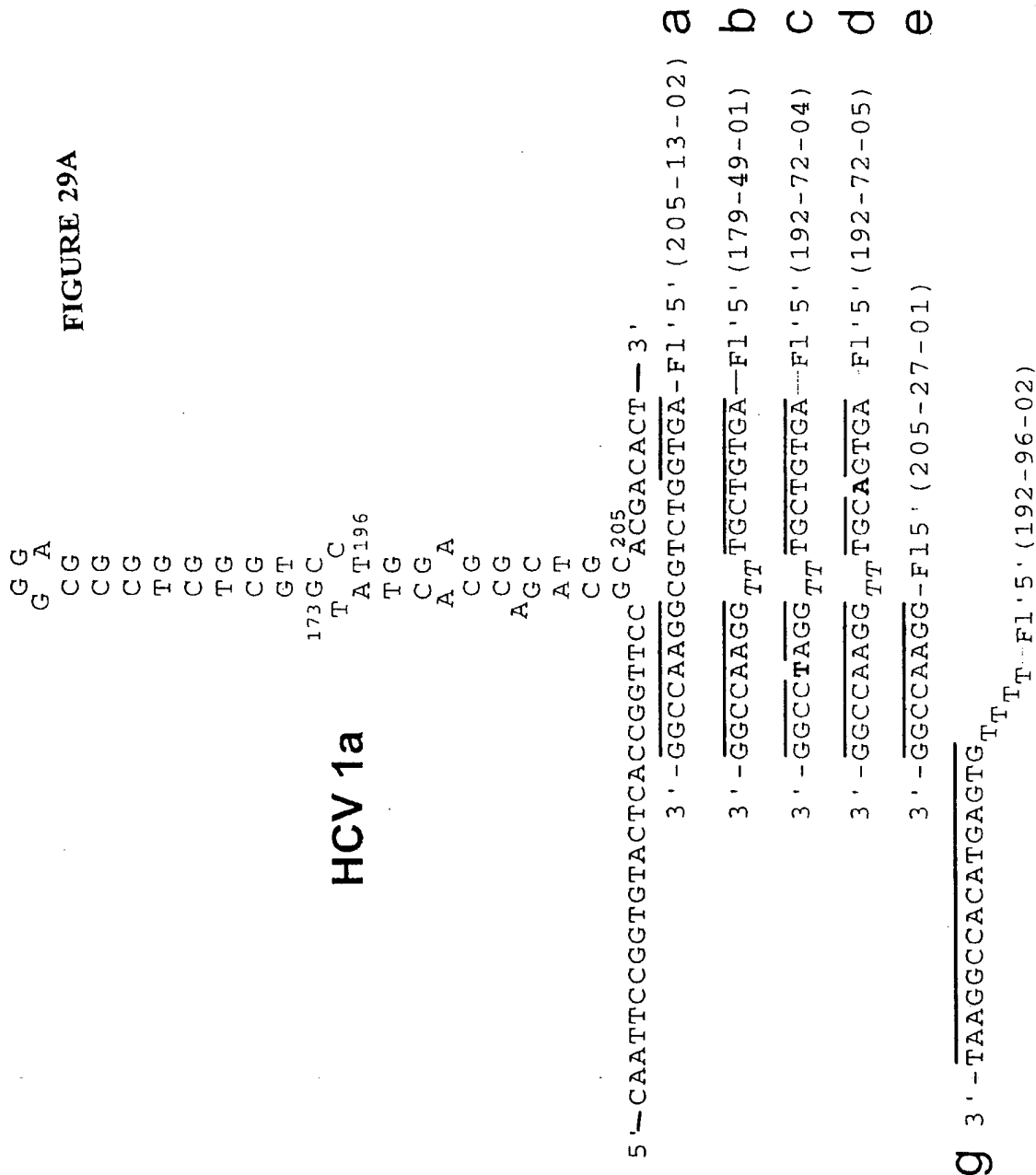




FIGURE 29B

5' -ATTCCGGTGTA CTACCCGGTTCCAAACGACACT-3' (205-13-01) S.T.  
3' -GGCCAAAGGCGTCTGGTGA-F1'5' (205-13-02) a  
3' -GGCCAAAGG<sub>TT</sub>TGCTGTGA--F1'5' (179-49-01) b  
3' -GGCCTAGG<sub>TT</sub>TGCTGTGA--F1'5' (192-72-04) c  
3' -GGCCAAAGG<sub>TT</sub>TGCAAGTGA-F1'5' (192-72-05) d  
3' -GGCCAAAGG-F15' (205-27-01) e  
g 3' -TAAGGCCACATGAGTG<sub>TT</sub><sub>TT</sub>-F1'5' (192-96-02)



FIGURE 30

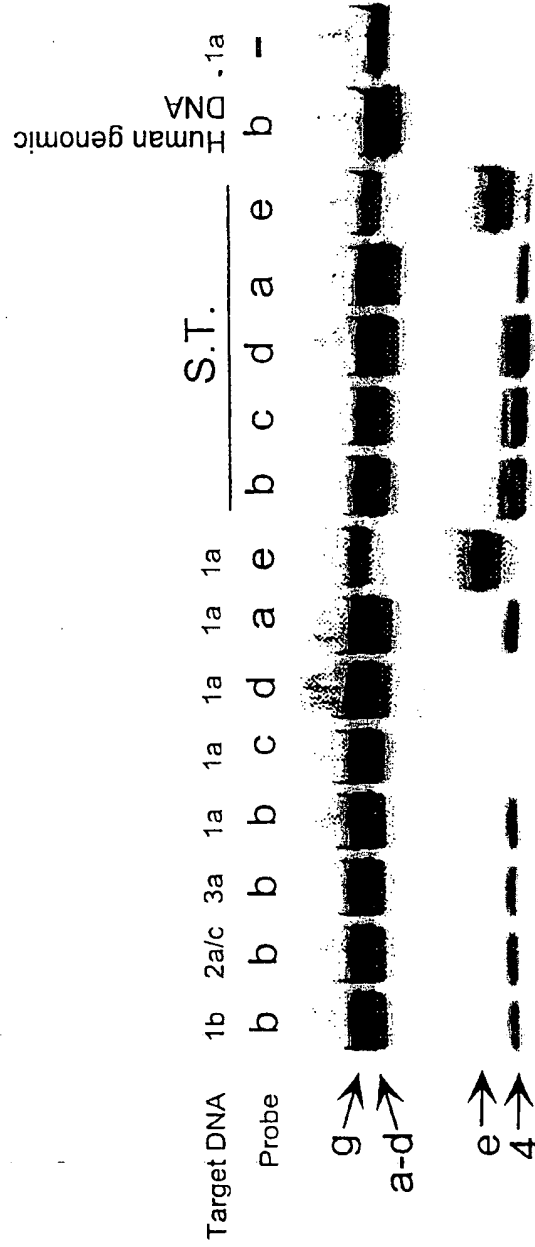
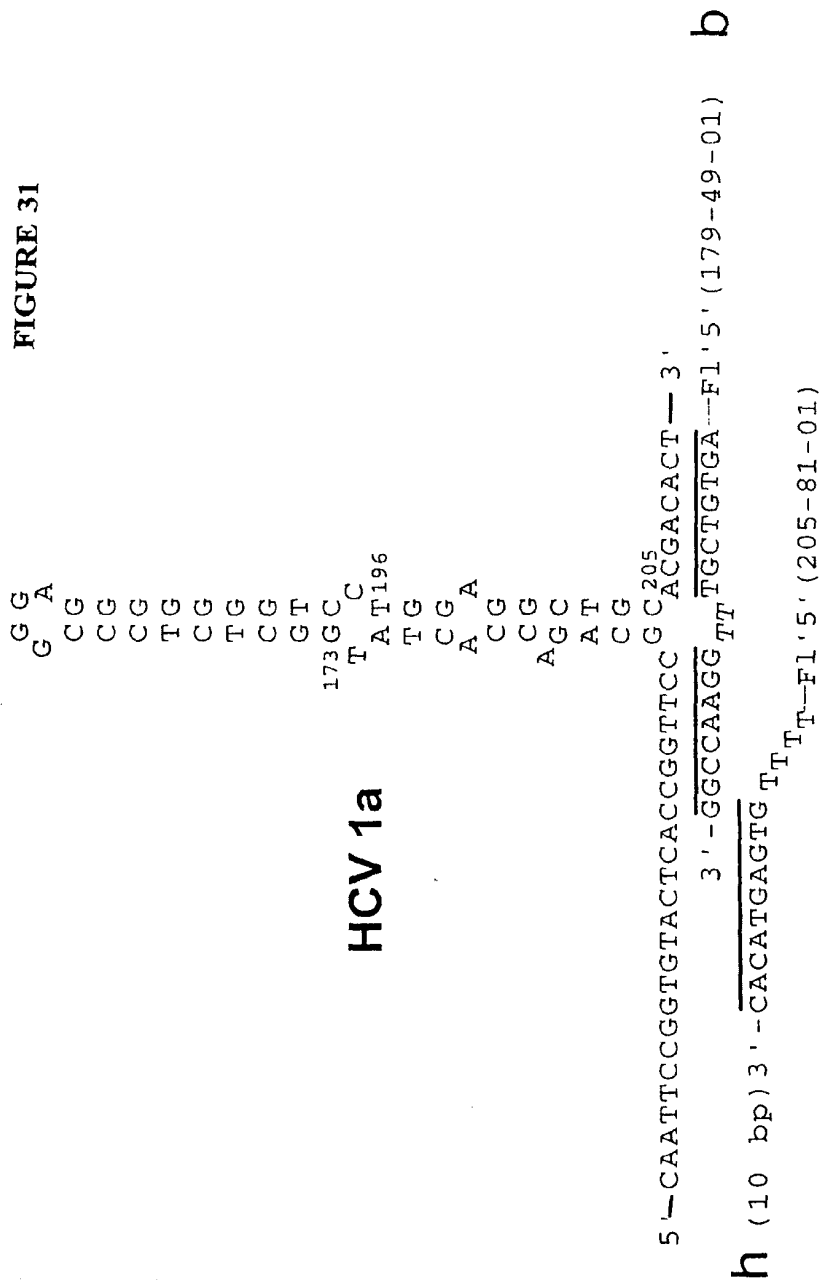




FIGURE 31





**FIGURE 32**

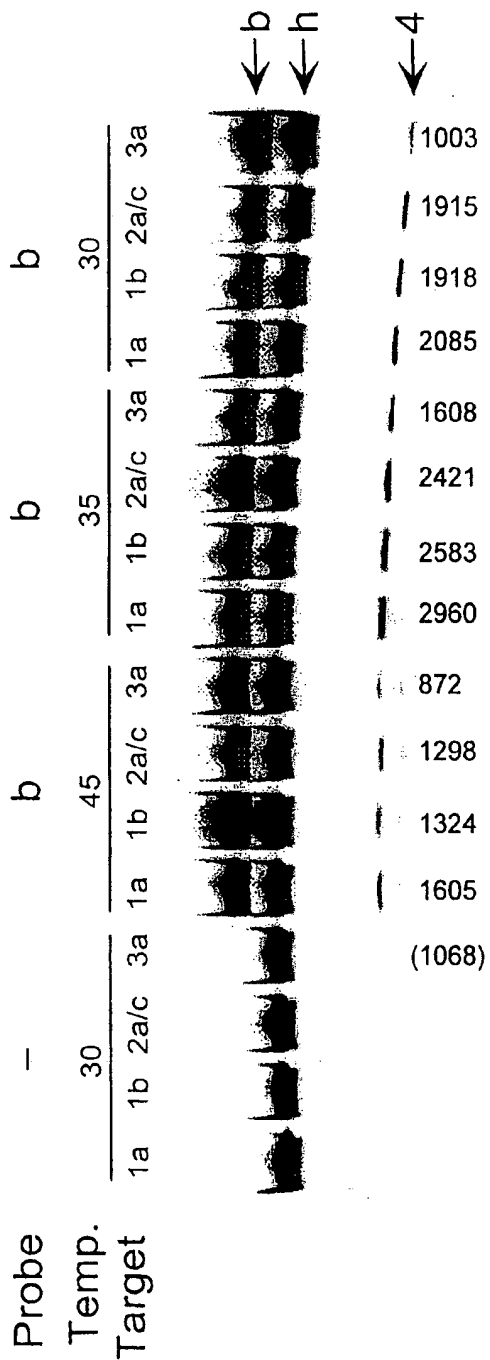
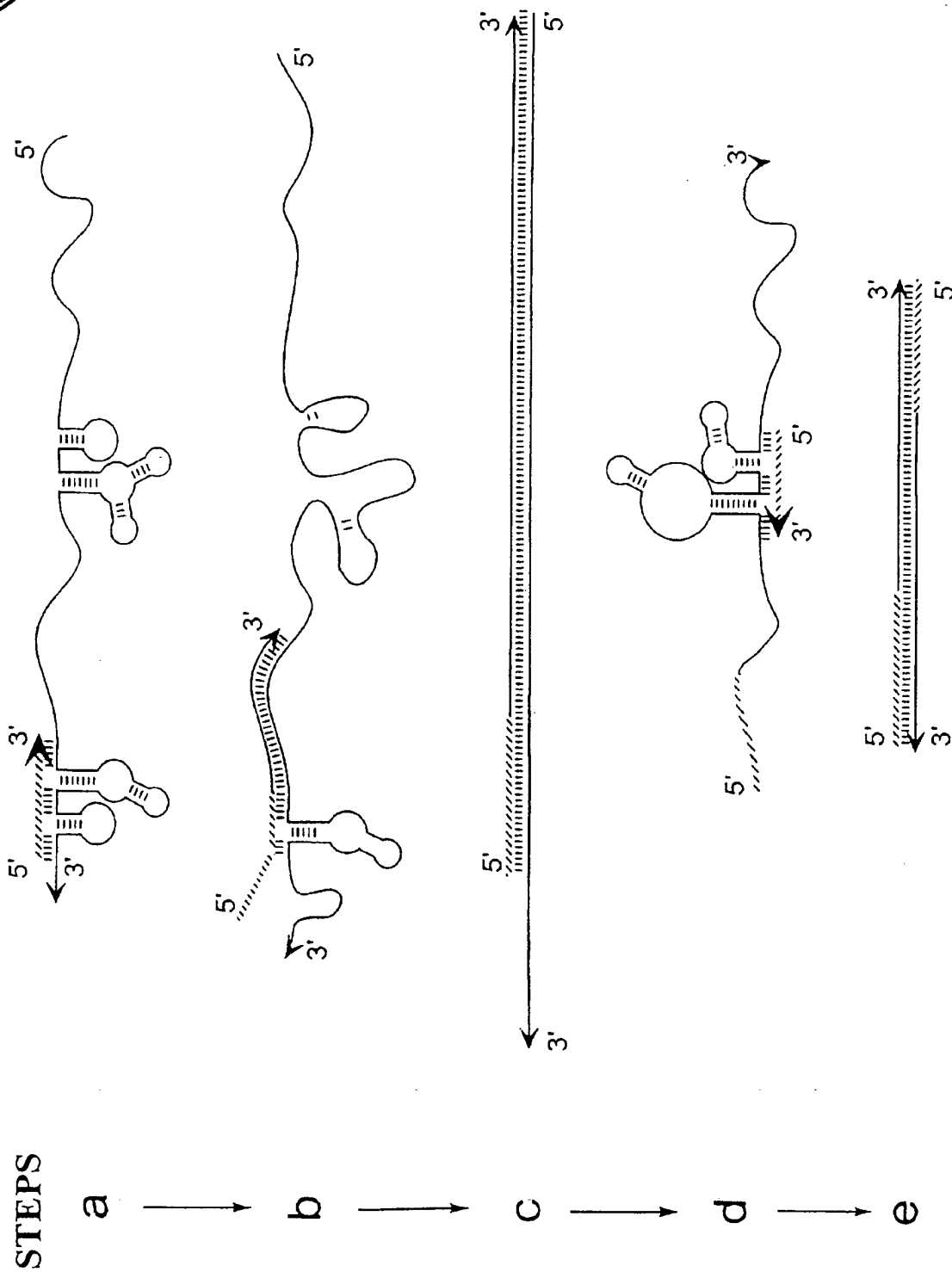






FIGURE 34

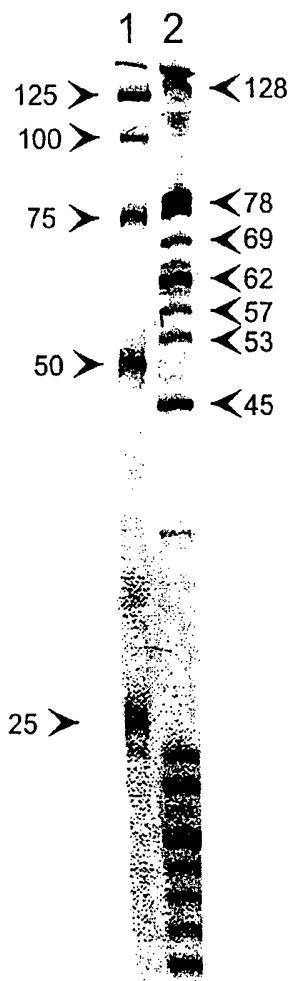






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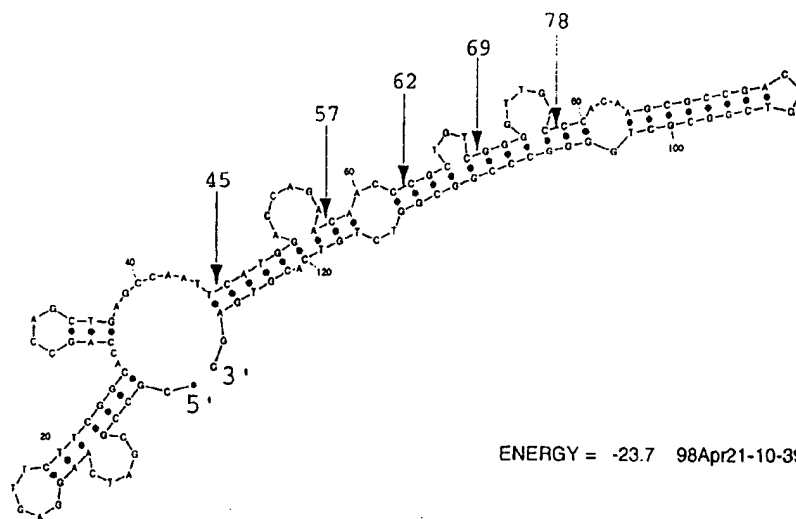
FIGURE 36



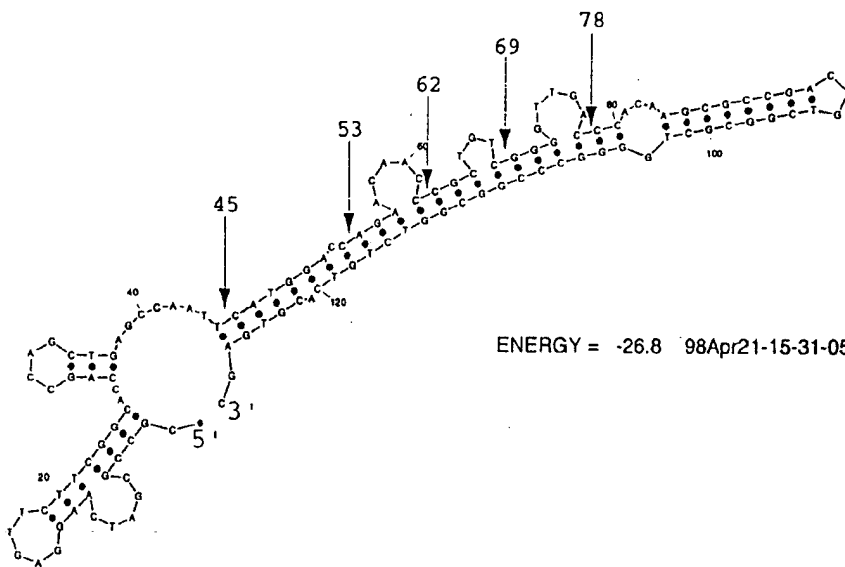


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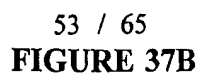
FIGURE 37A



ENERGY = -23.7 98Apr21-10-39-54



ENERGY = -26.8 98Apr21-15-31-05





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FIGURE 37C

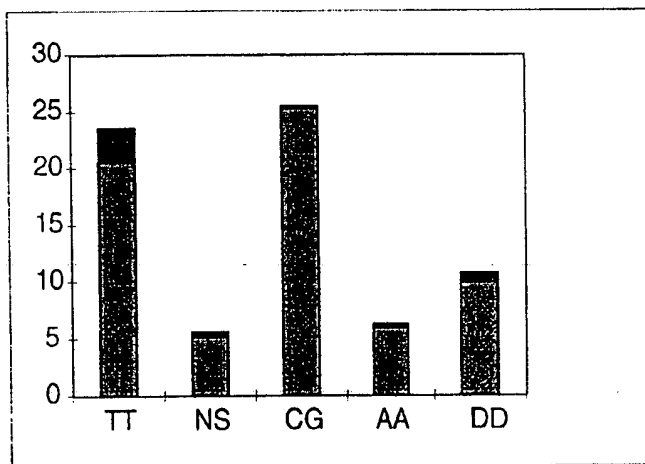
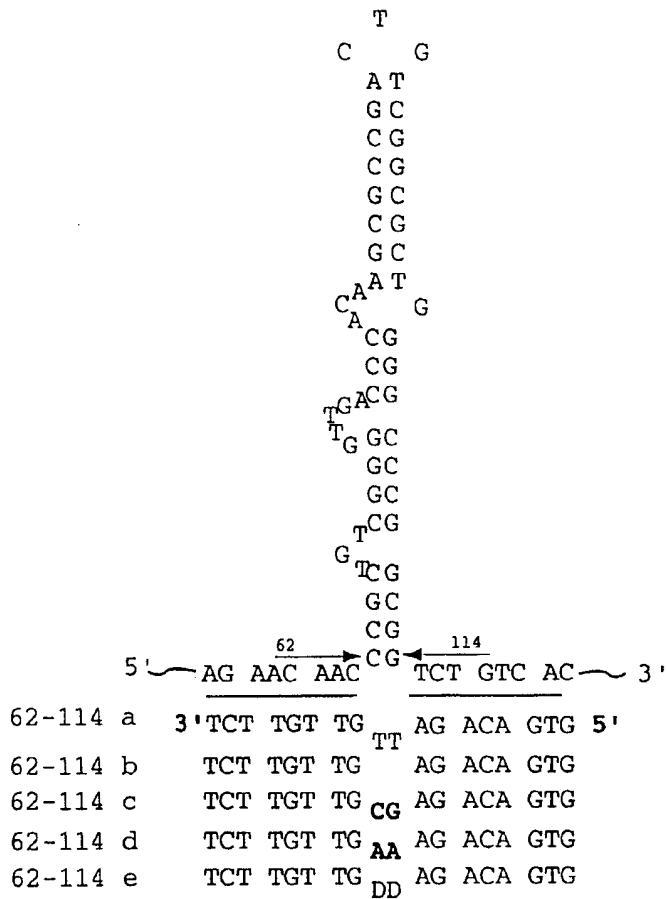
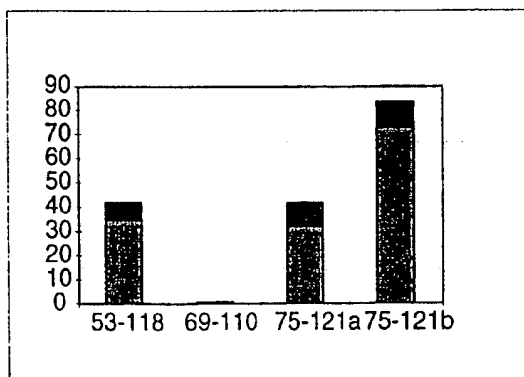
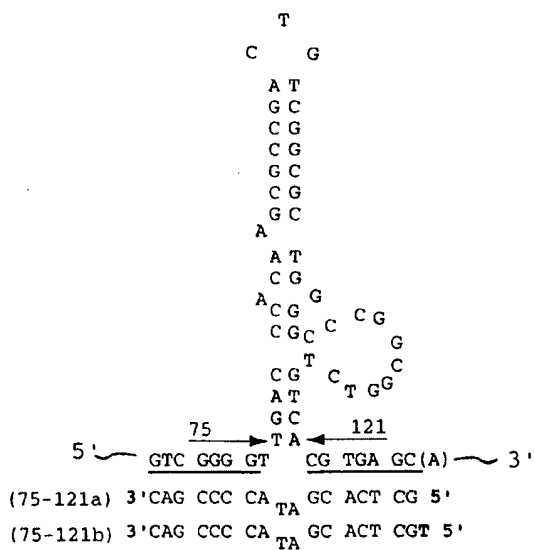
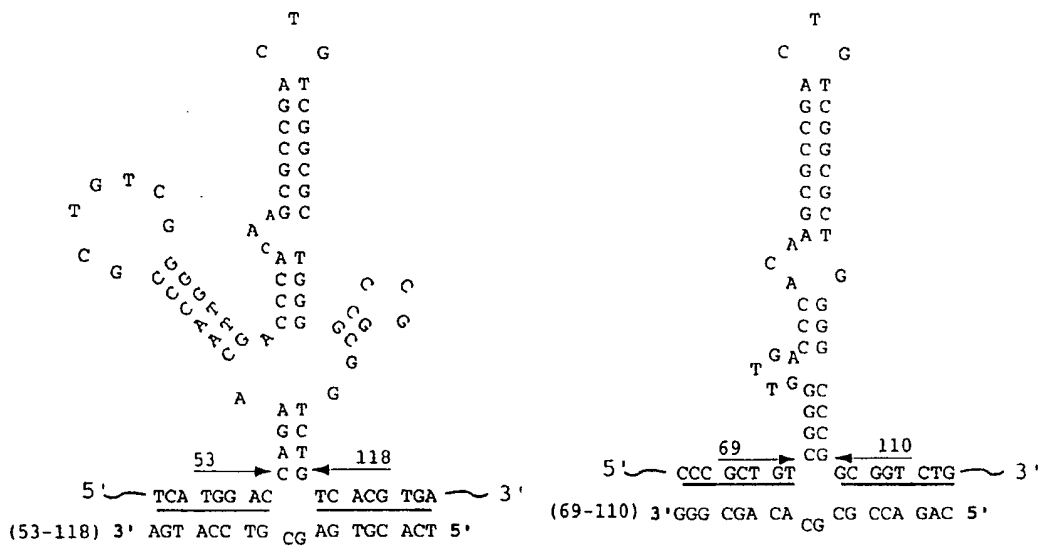




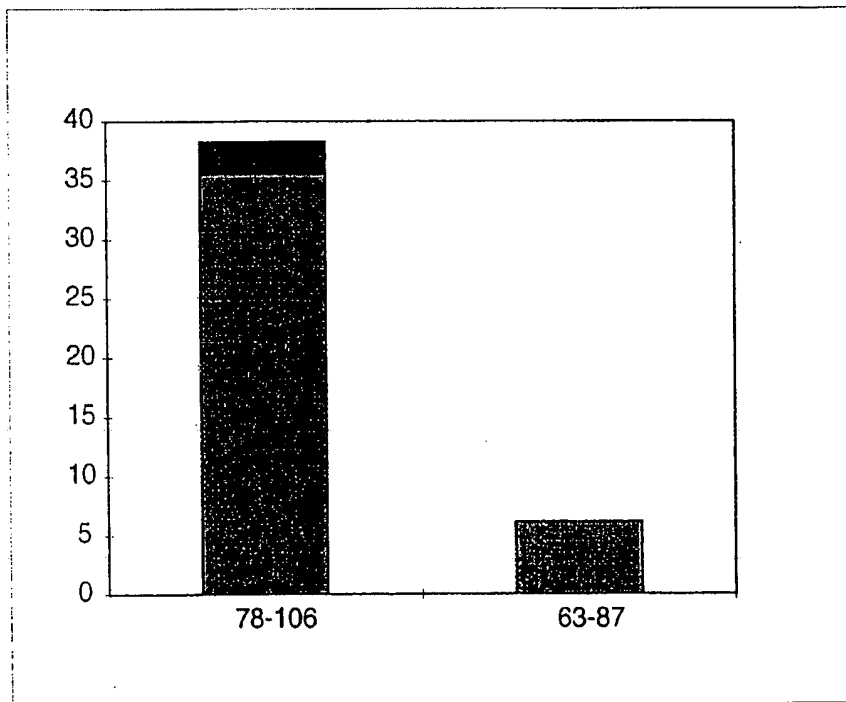
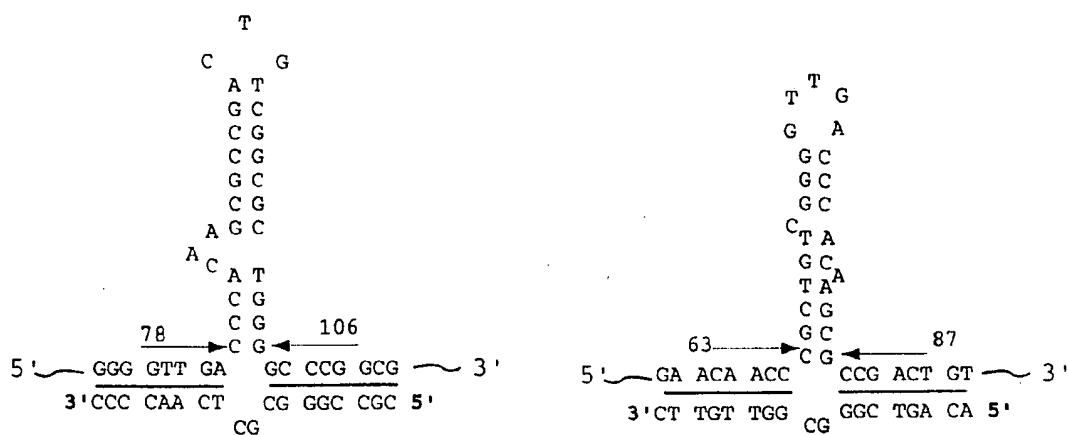
FIGURE 38A





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FIGURE 38B







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FIGURE 38C

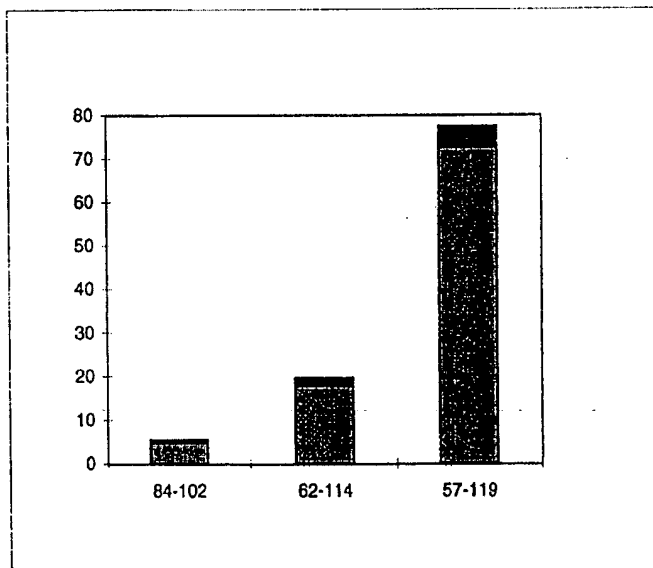
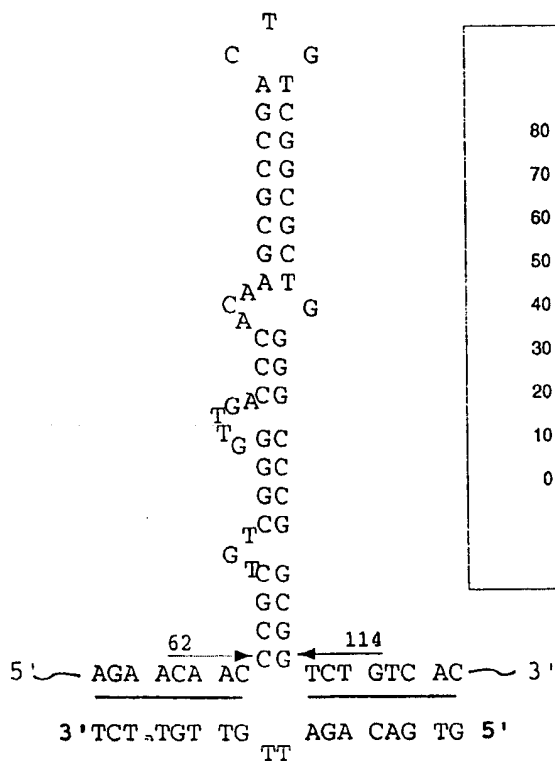
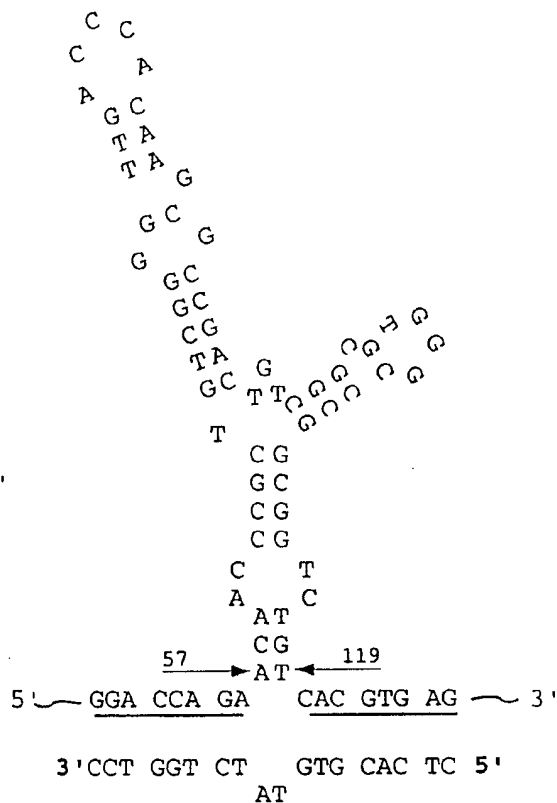
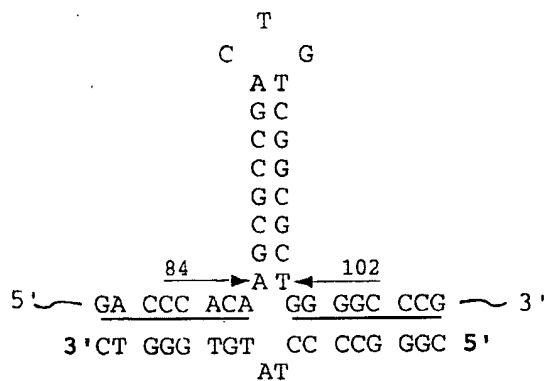
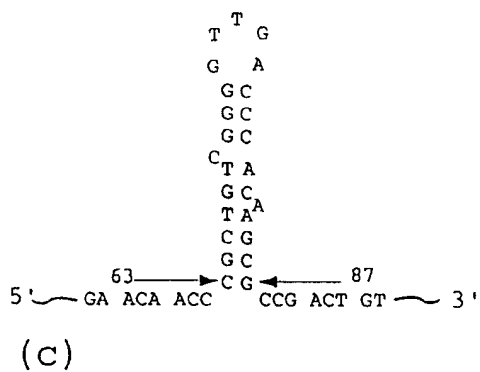
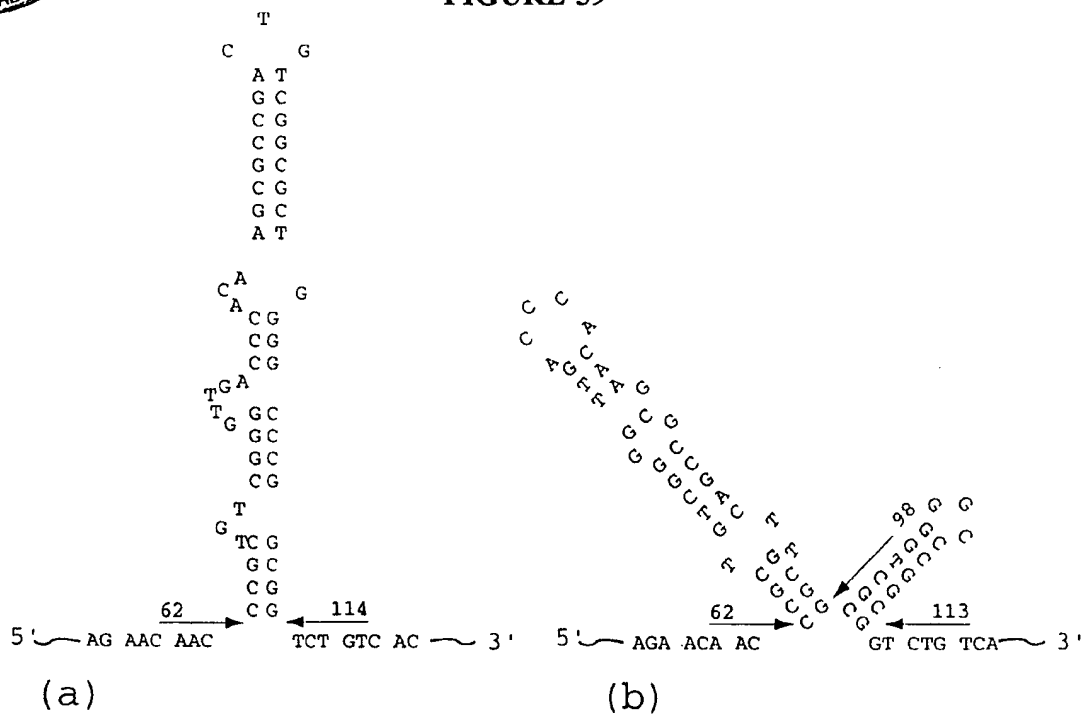




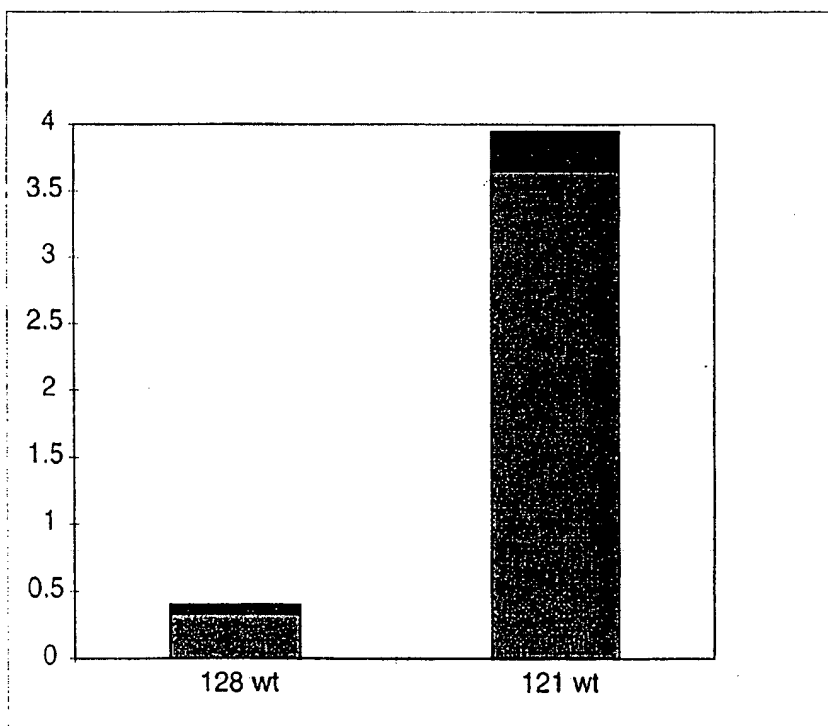
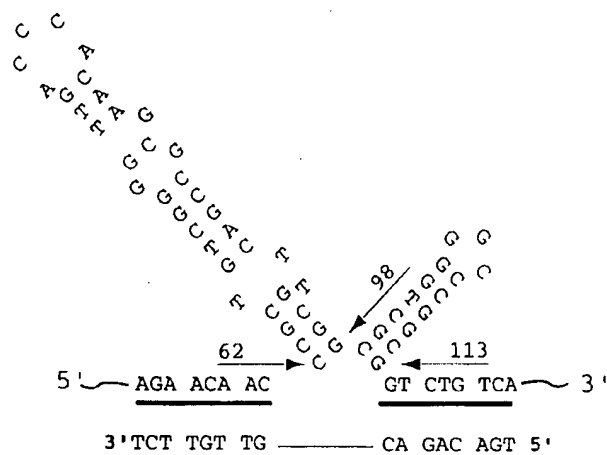
FIGURE 39





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FIGURE 40

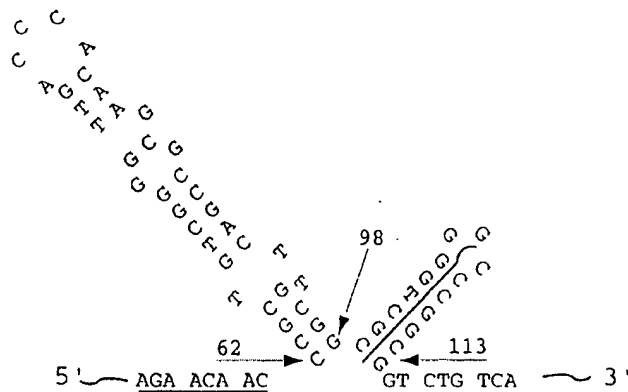




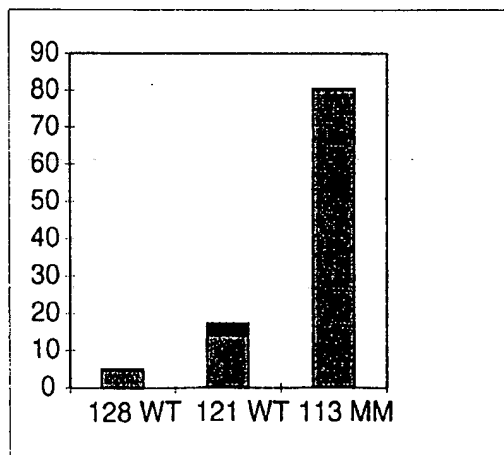
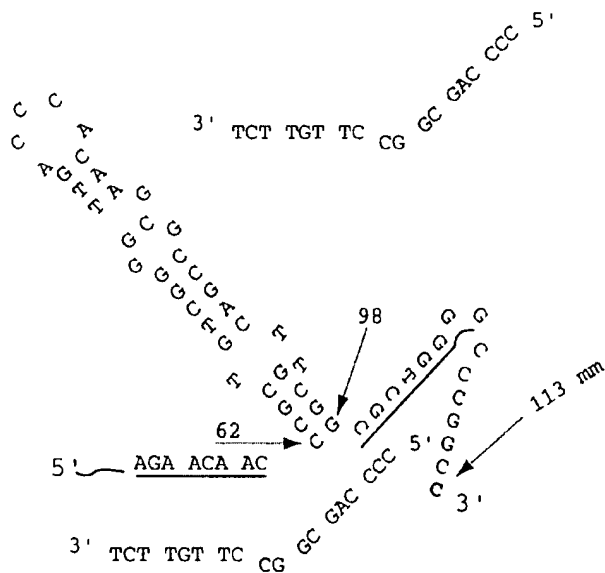
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FIGURE 41

121 wt



113 mm





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FIGURE 42

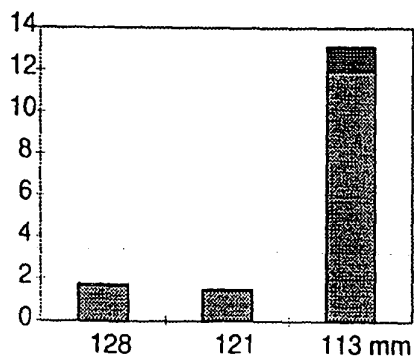
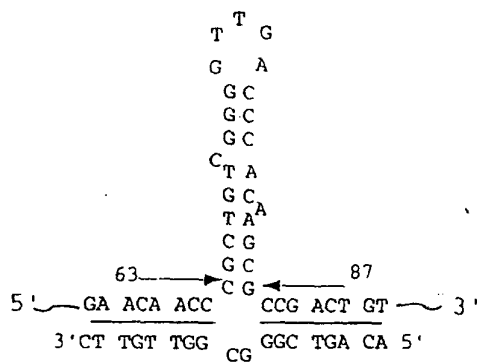
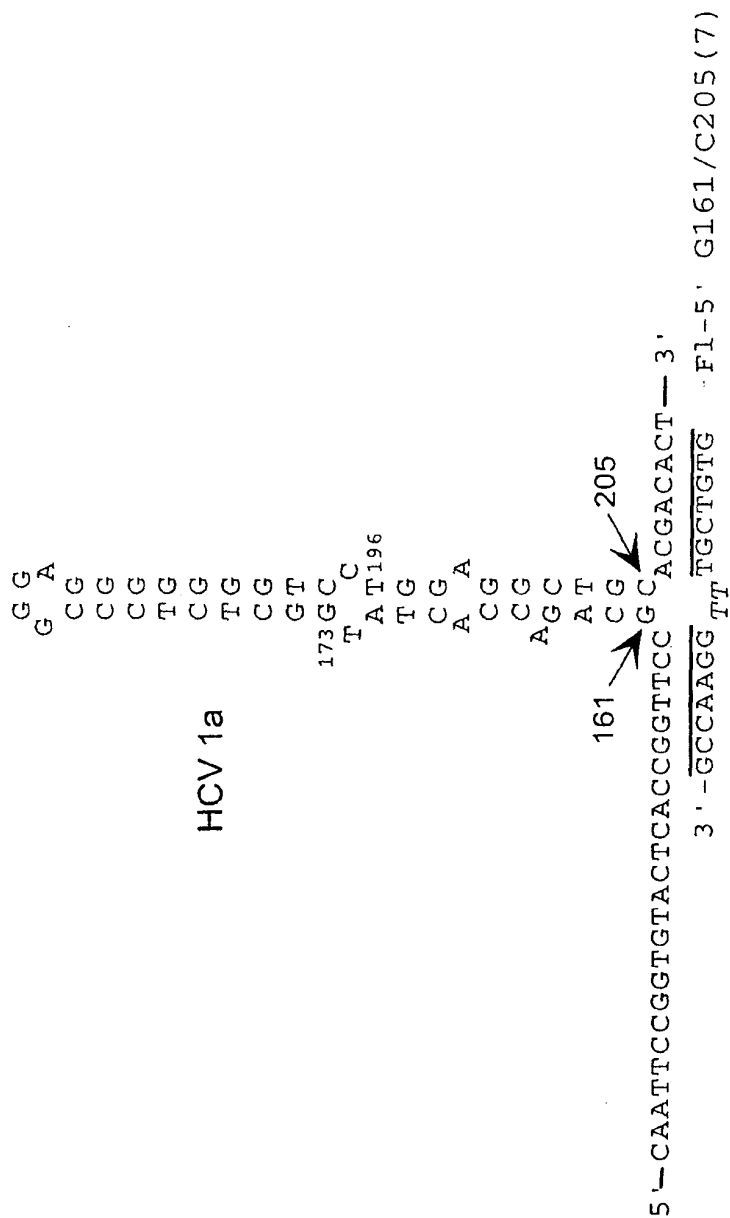




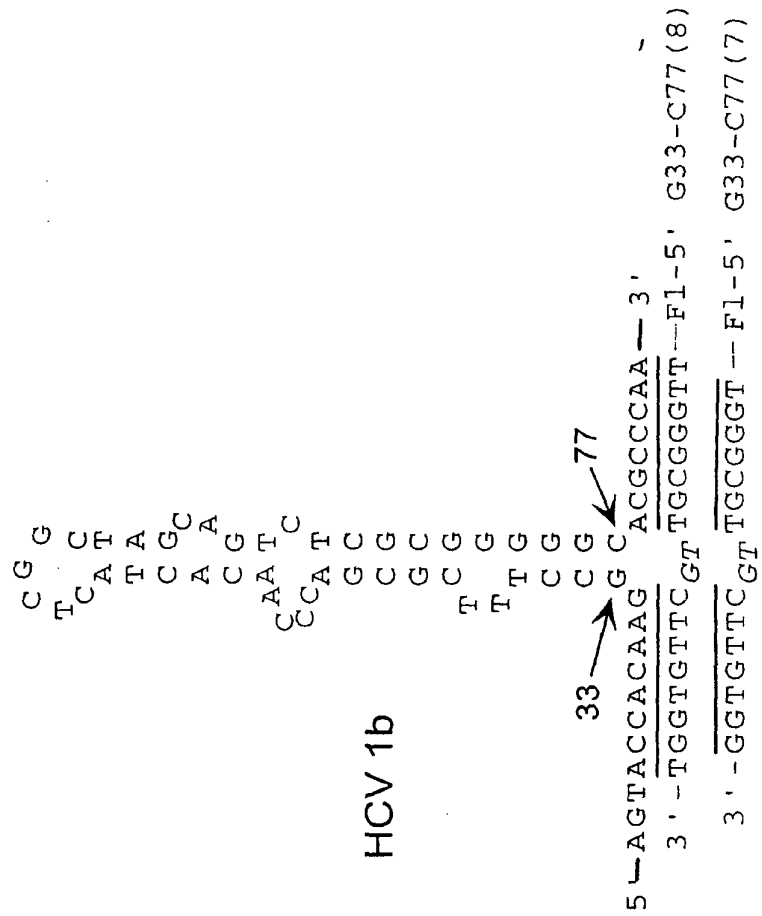
FIGURE 43A





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FIGURE 43B





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FIGURE 44A

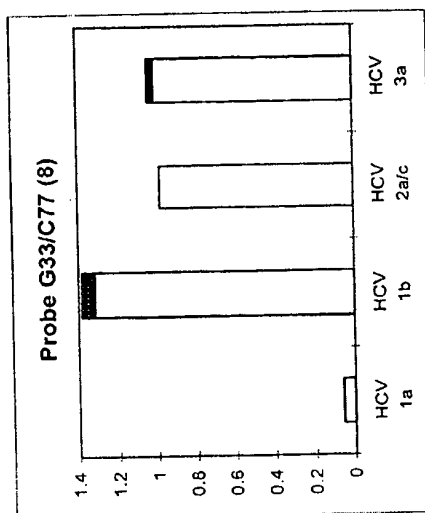






FIGURE 44B

